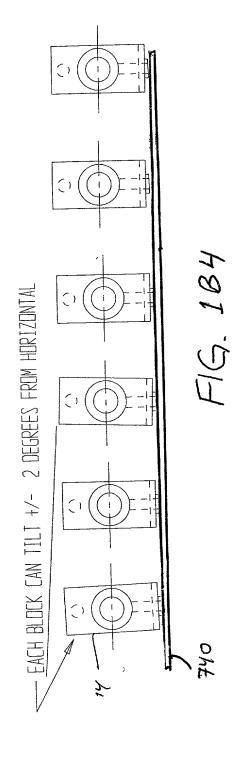
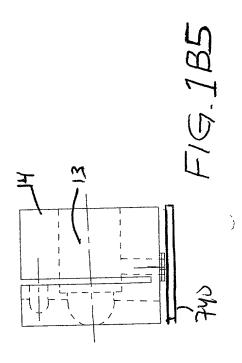


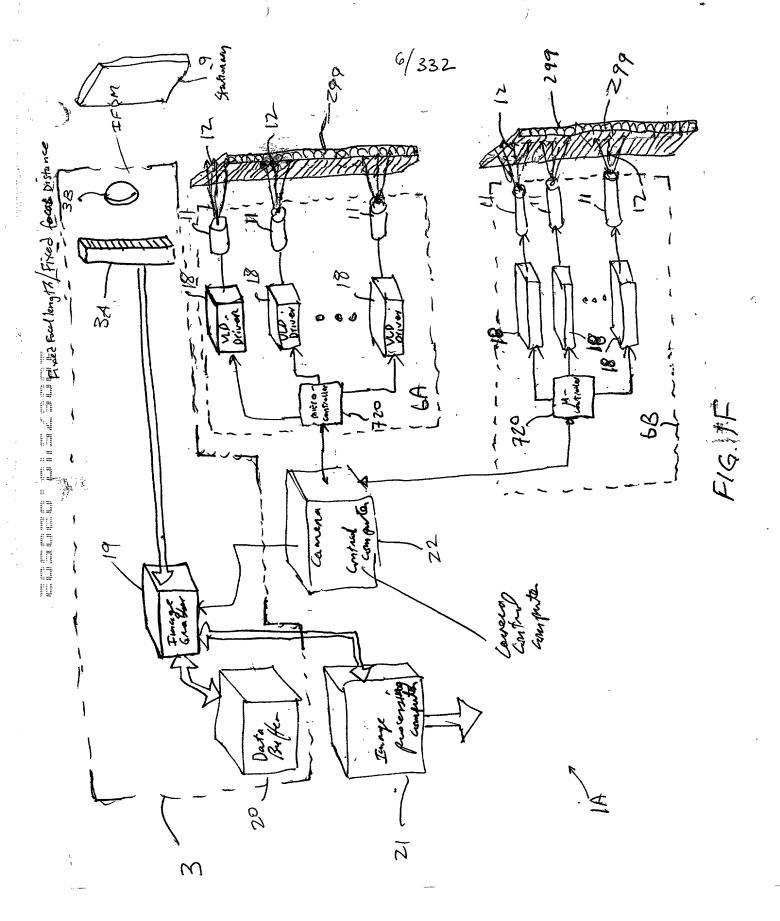
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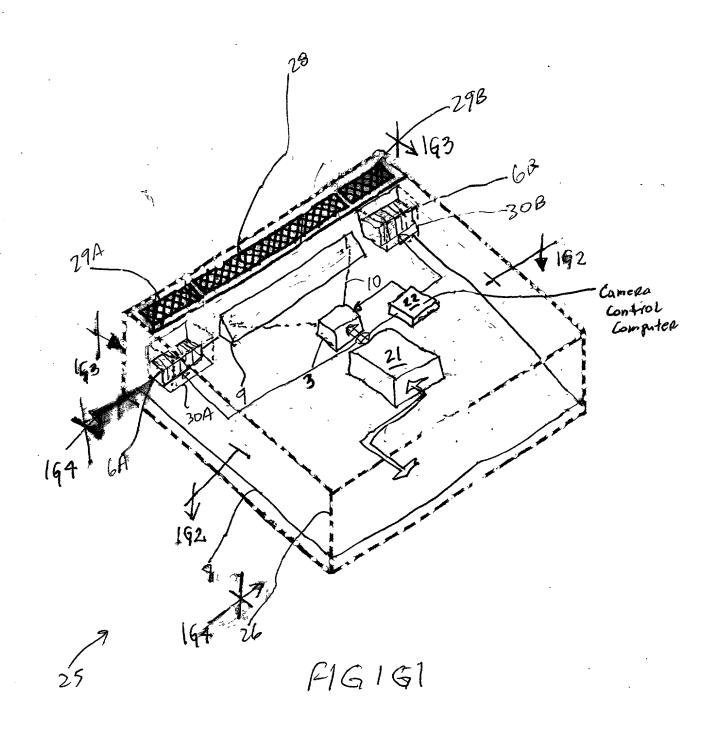


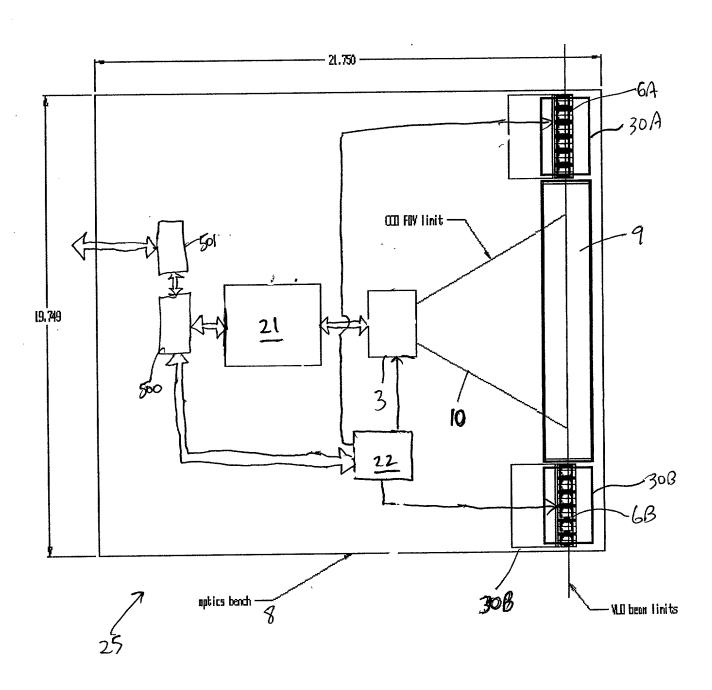
VLD BLOCK CAN PITCH FOWARD FOR ALIGNMENT WITH OTHER VLD BEAMS



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F16. 162

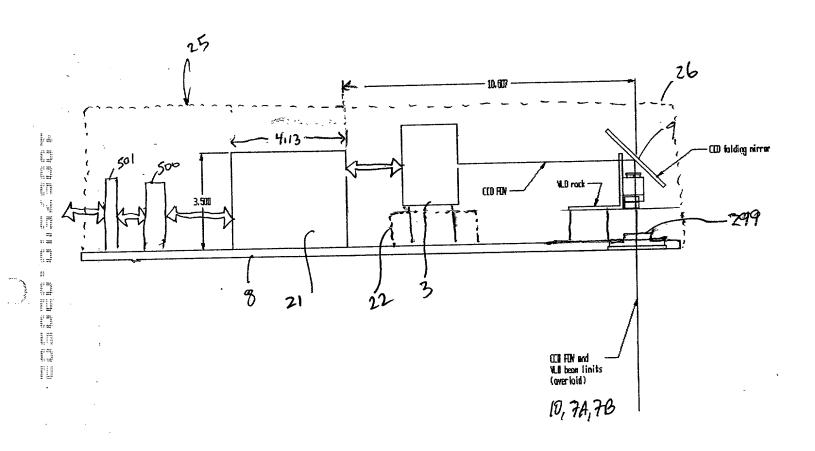
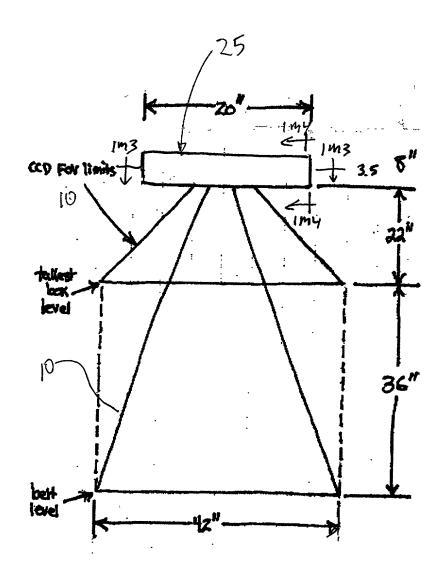
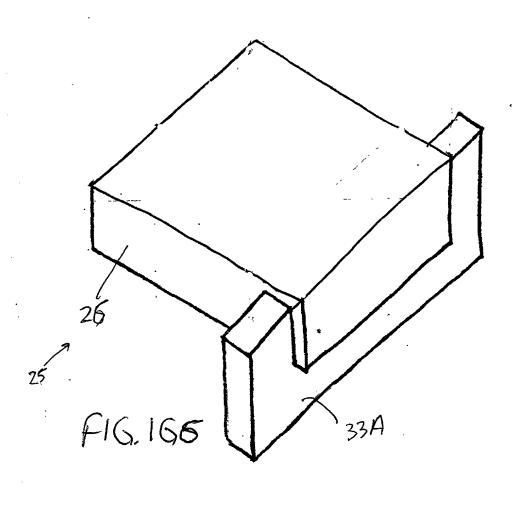


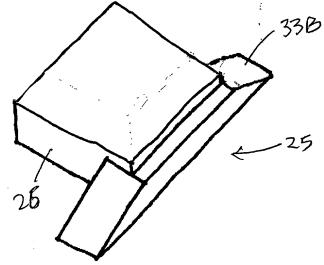
FIG. 164 ..



\* Fixed Field of Field

F16.165





F1G.1G7

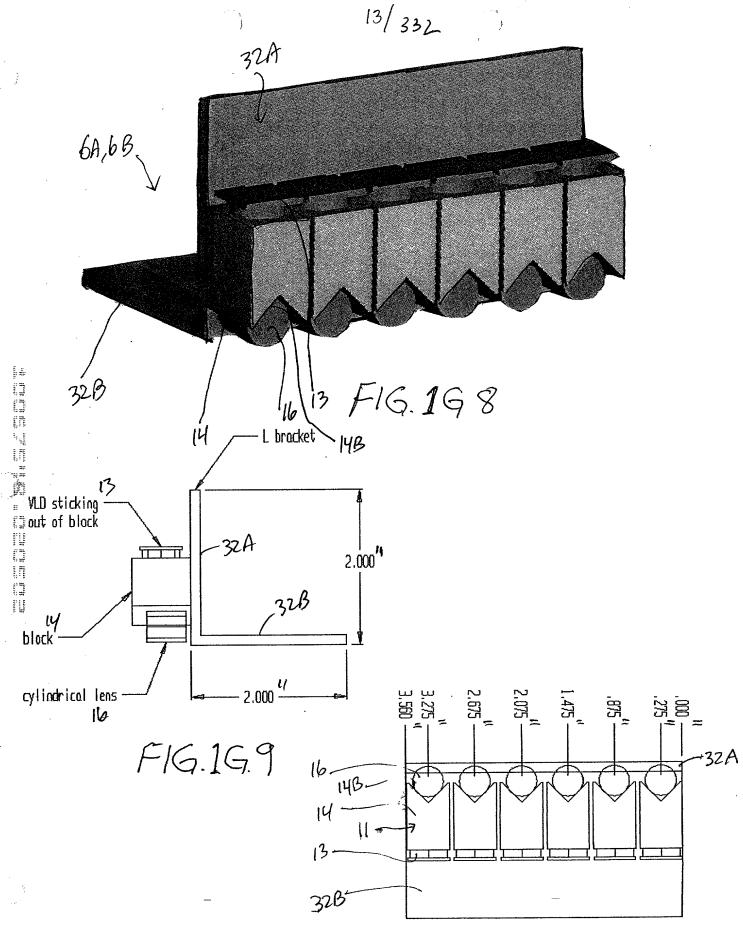
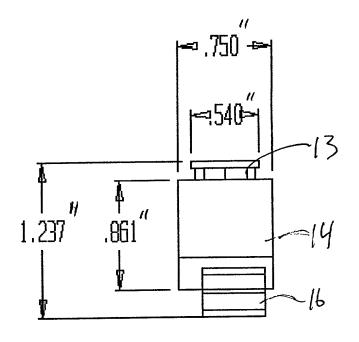
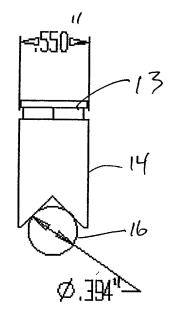


FIG.1G10



F16.1611



F19-1912

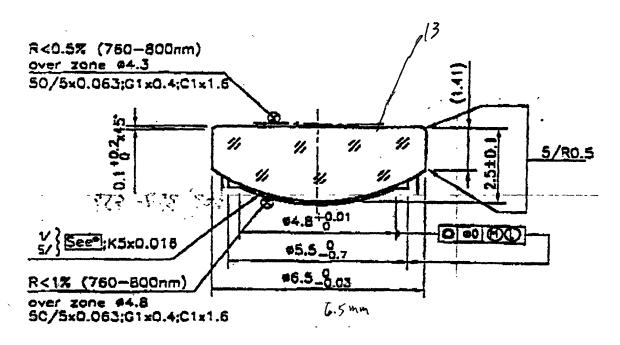


FIG. 1913

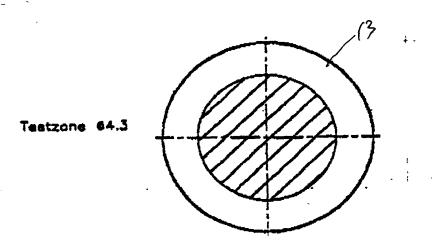


FIG. 1G14

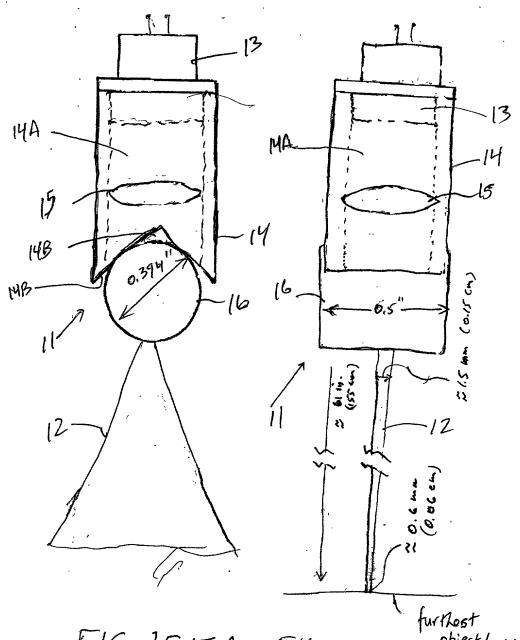
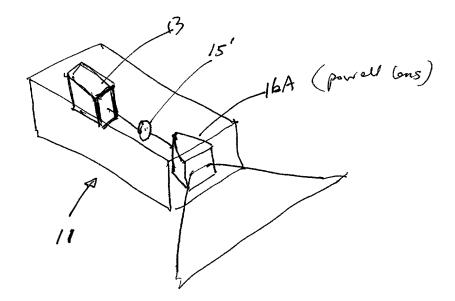


FIG. 1615A FIG. 1615B distance



F1G.1G.16A

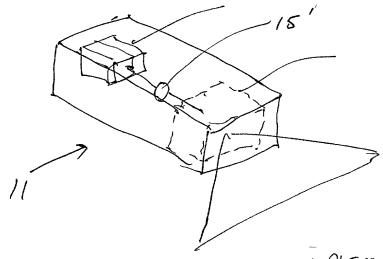
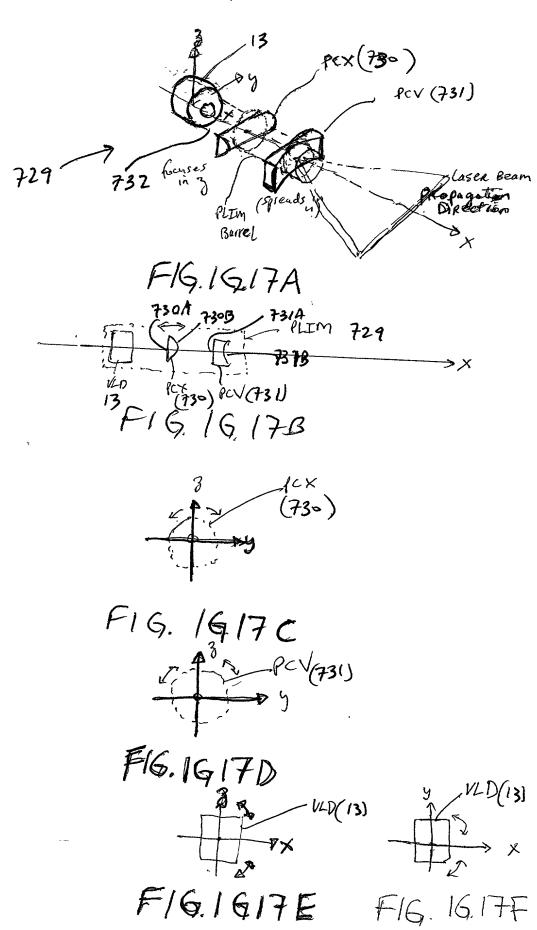
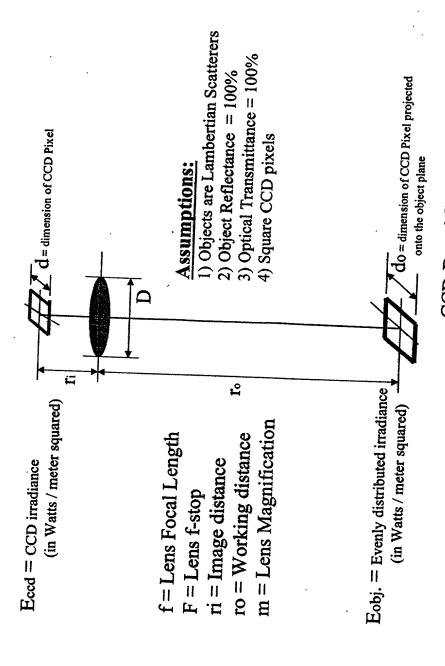


FIG.1616B

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CCD-Based Scanner

FIG. 146

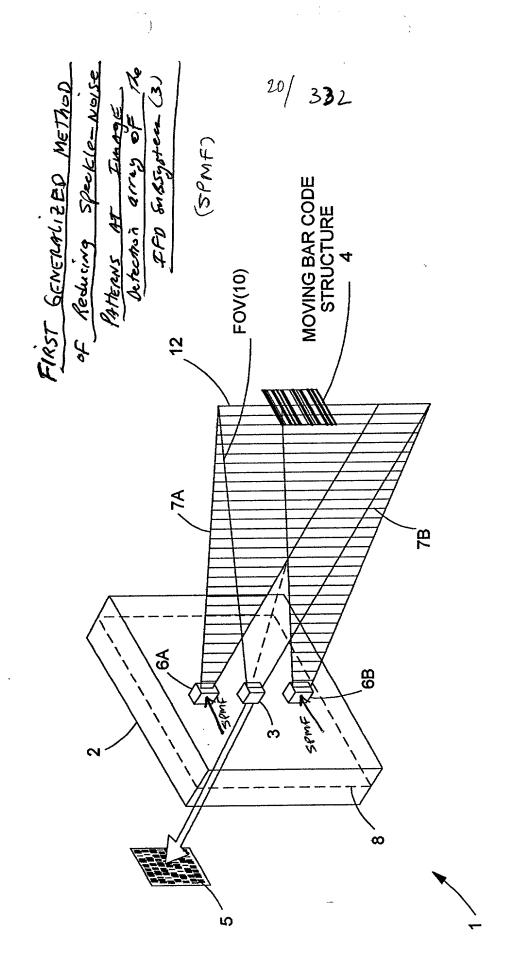
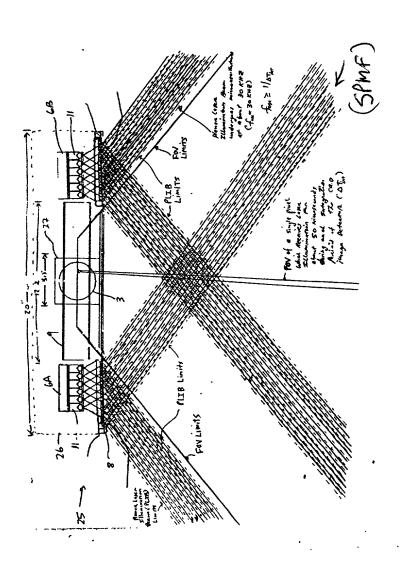


FIG. 1II



HG. 1I2A

Prior to object Illumination

## The First Generalized Speckle-Noise Pattern Reduction Method Of The Present Invention

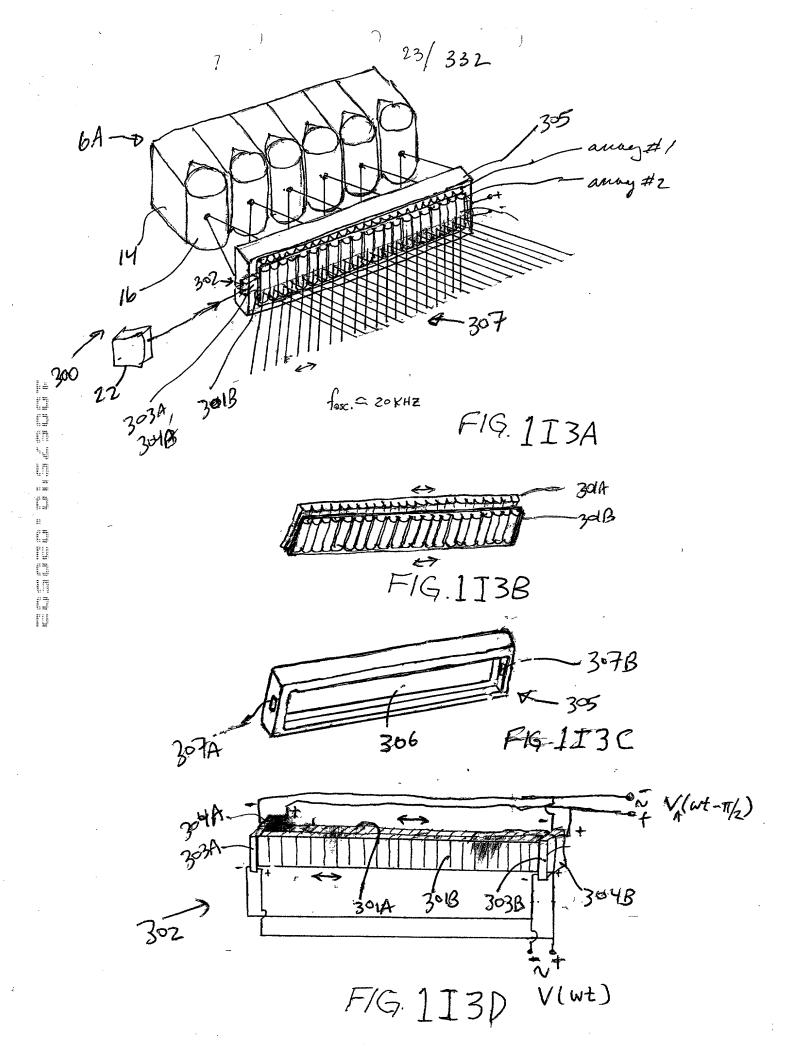
Prior to illumination of the target with the planar laser illumination beam (PLIB), modulate the spatial phase of the transmitted PLIB along the planar extent thereof according to a spatial phase modulation function (SPMF) so as to

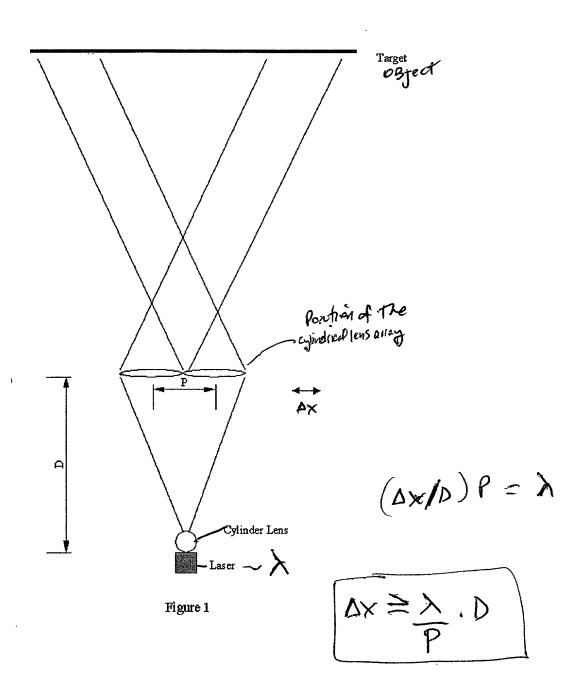
produce numerous substantially different time-varying speckle-noise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

Temporally average the numerous substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce the power of the speckle-noise pattern observed at the image detection array.

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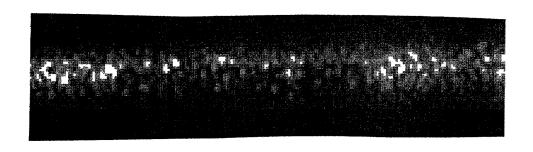
FIG. 1IZB



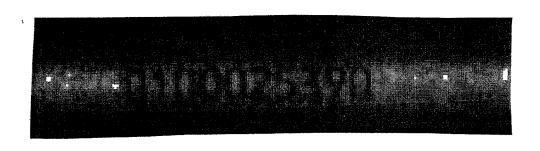


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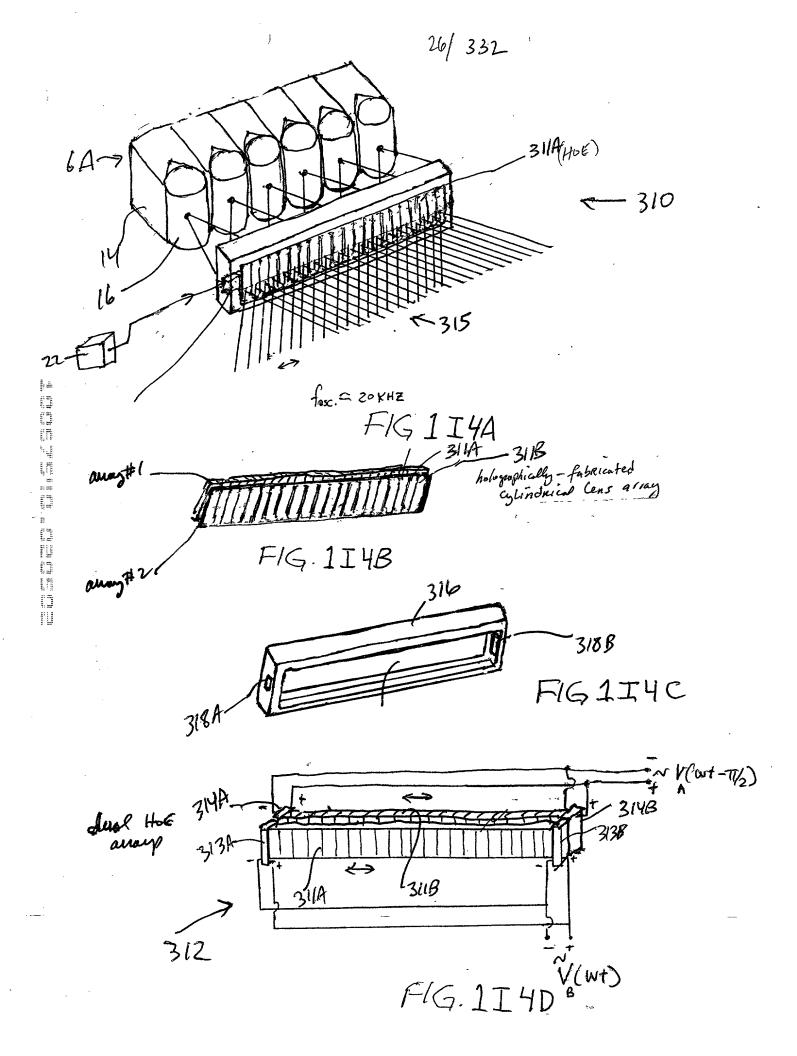
F16.1I3E

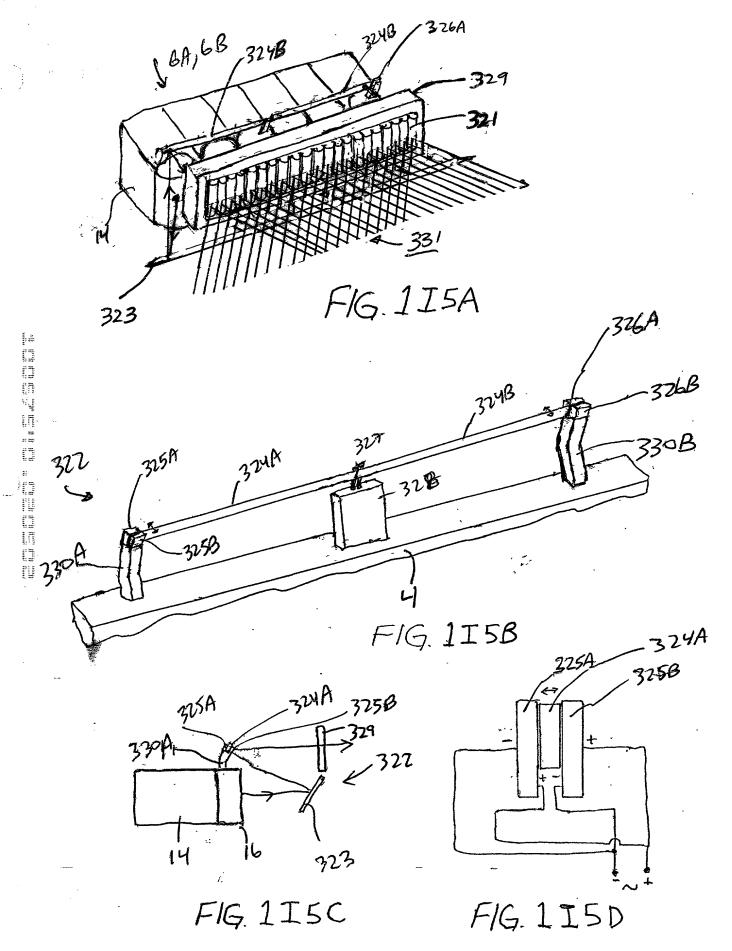


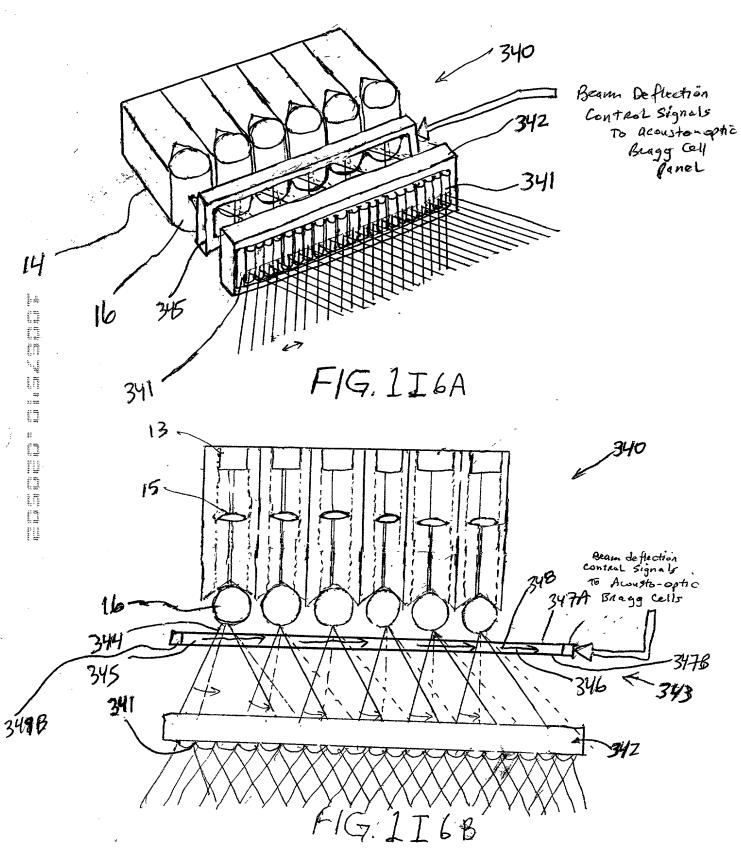
F19.1I3F

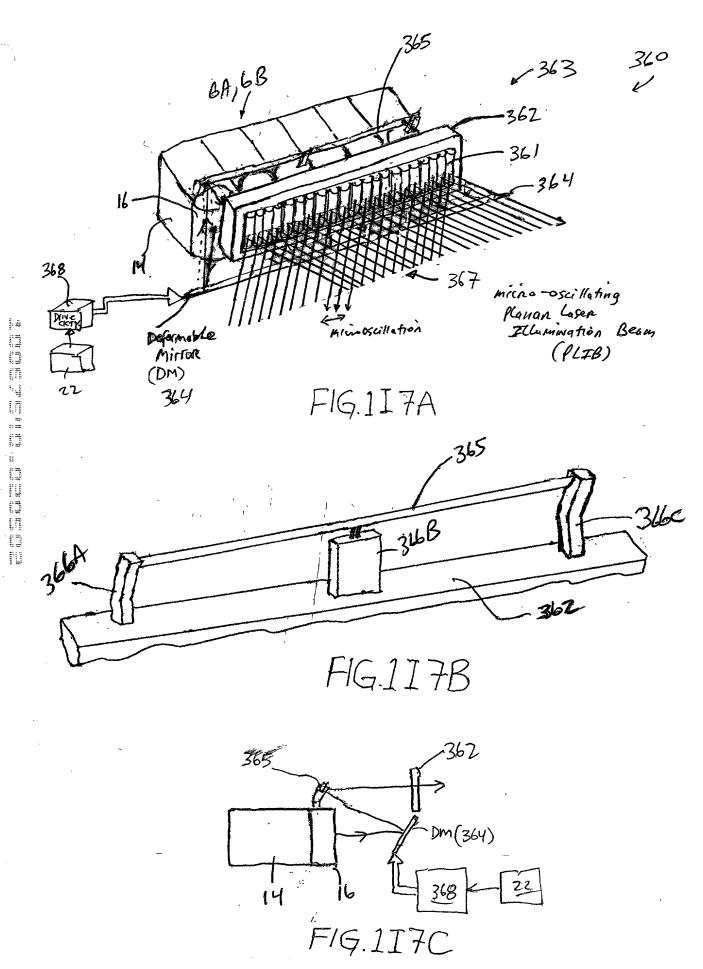


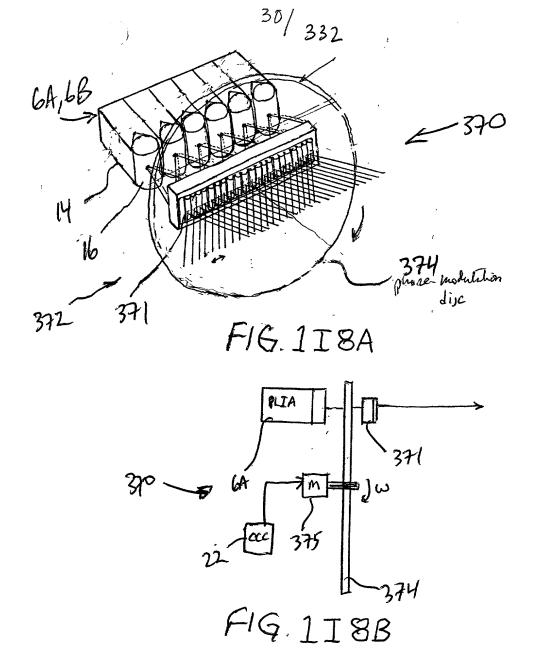
F1G 1I36

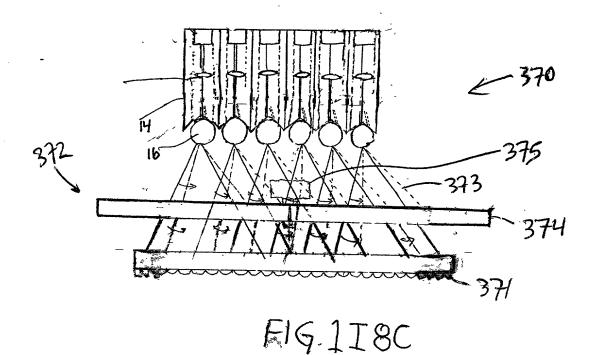


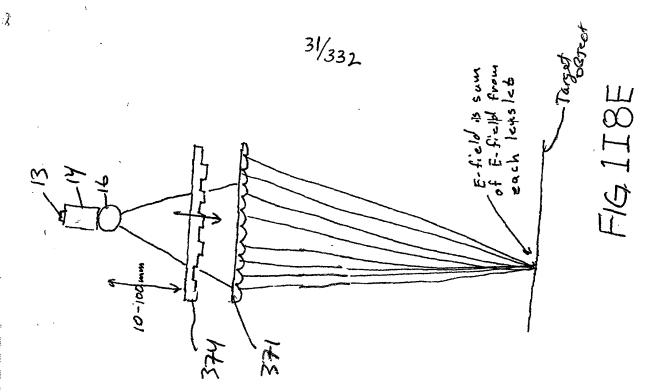


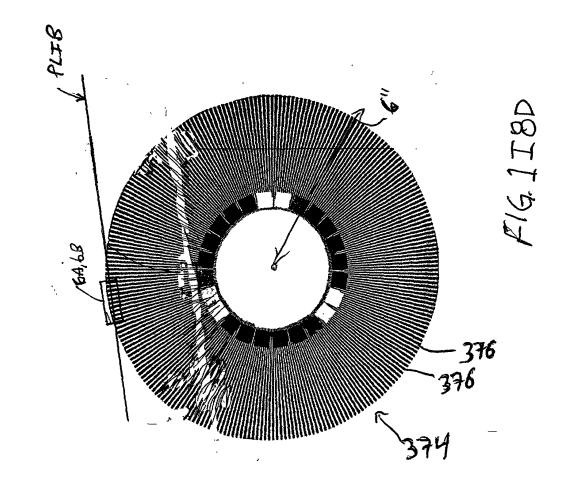












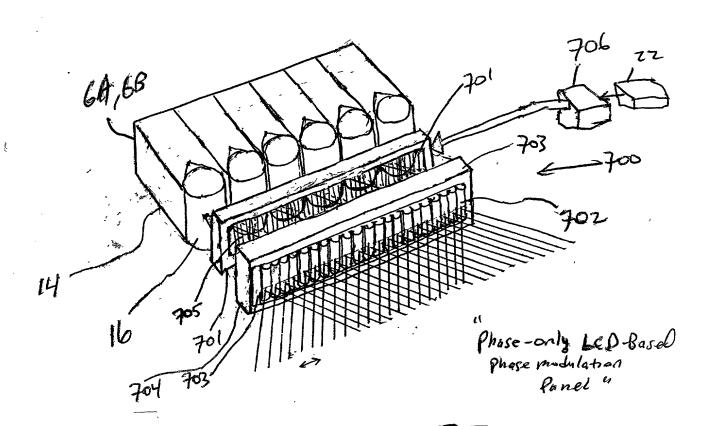


FIG.118F

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FIG.1186

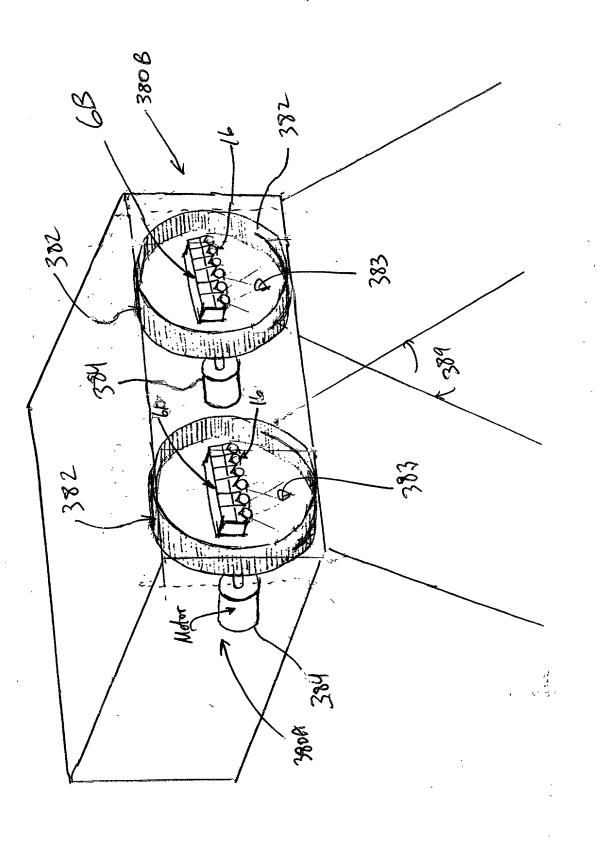
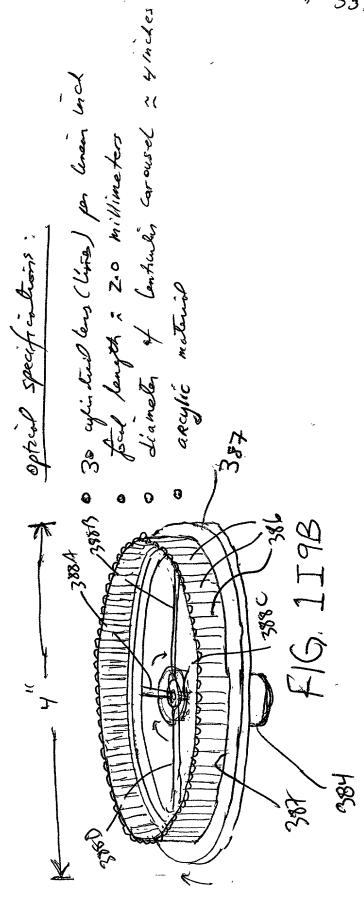


FIG 1I 34



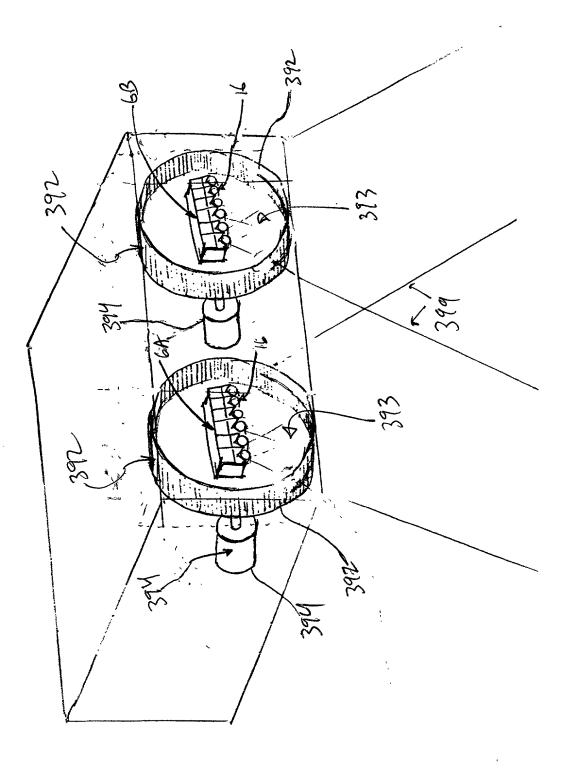
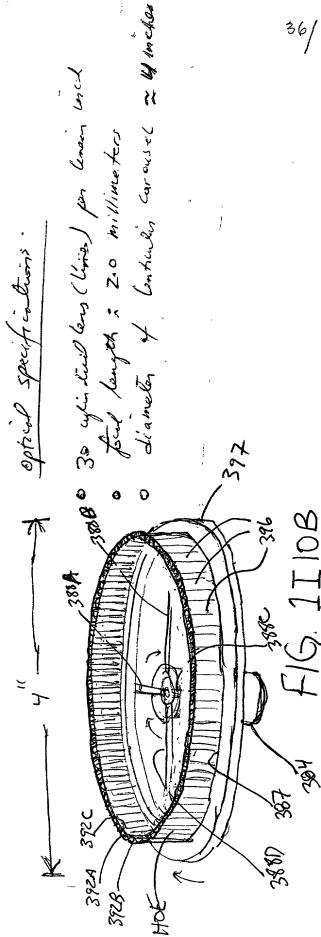
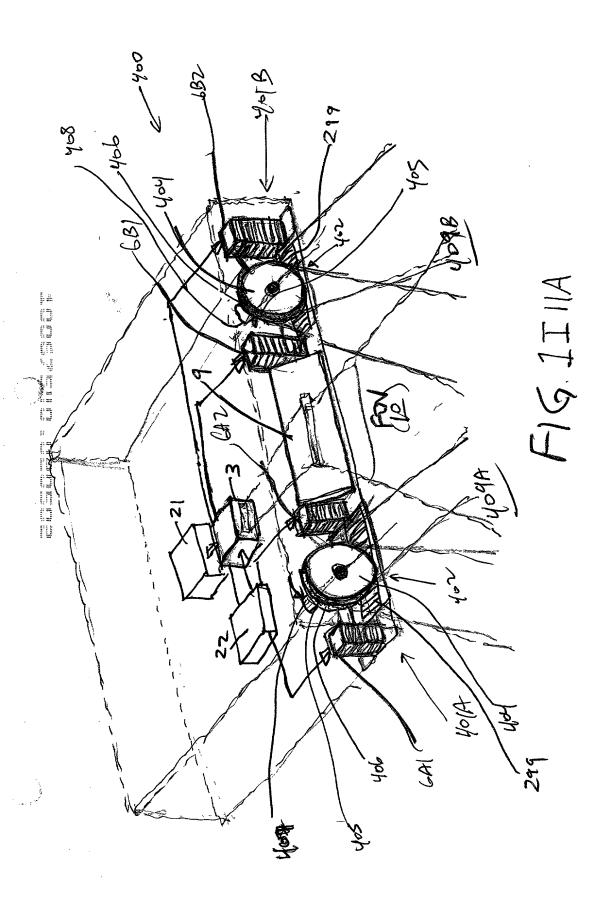
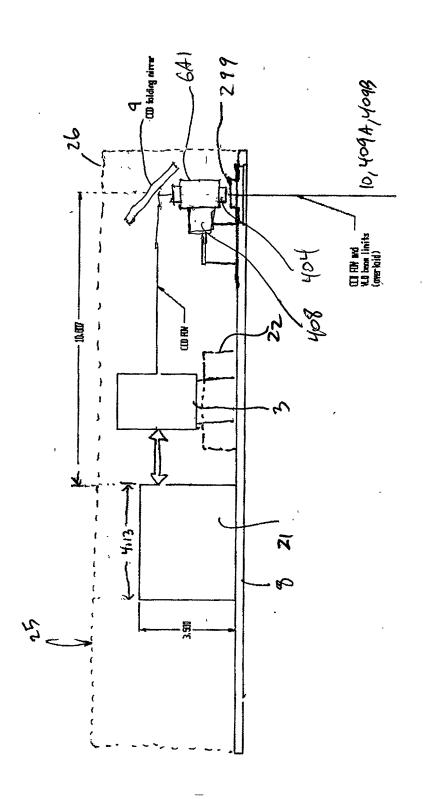


FIG. 11 10A

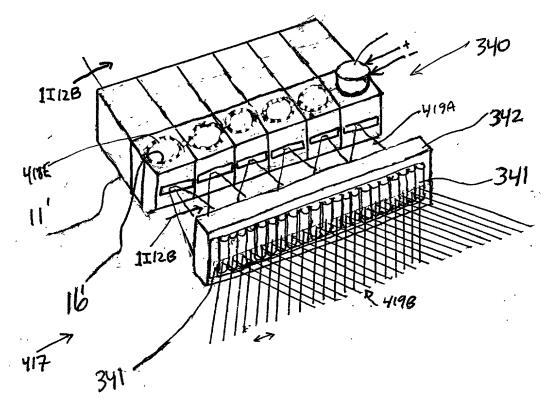




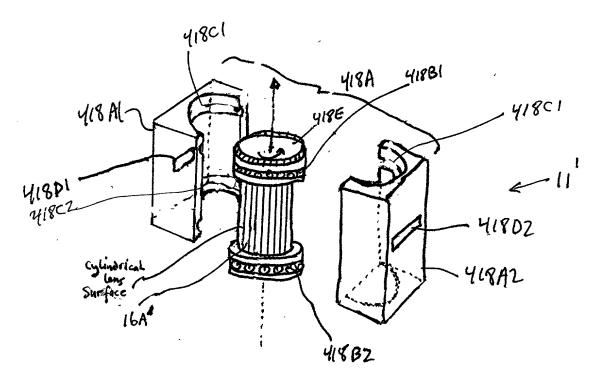


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F1G. 1112A



F16.1I12B



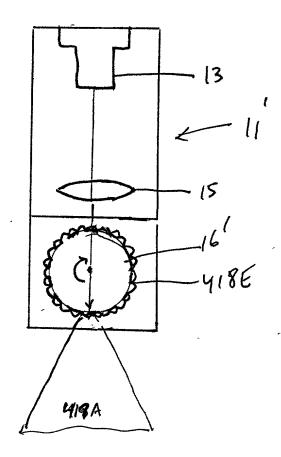
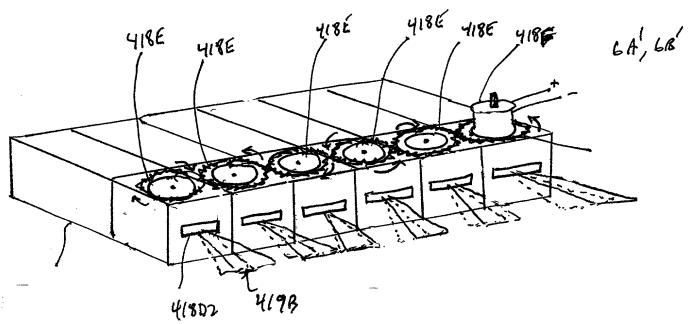


FIG.1I12C



F/G.1I12D

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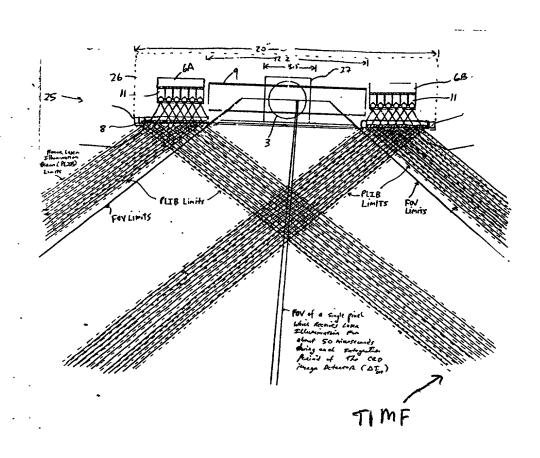
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F16. 1 I 13A

#### The Second Generalized Speckle-Noise Pattern Reduction Method Of The Present Invention

Prior to illumination of the target with the planar laser illumination beam (PLIB), modulate the temporal intensity of the transmitted PLIB along the planar extent thereof according to a temporal intensity modulation function (TIMF) so as to

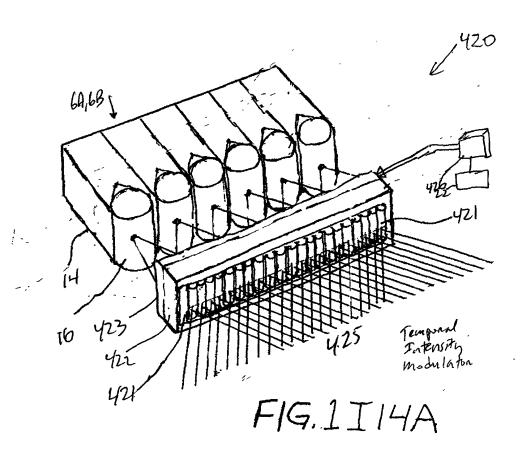
-A

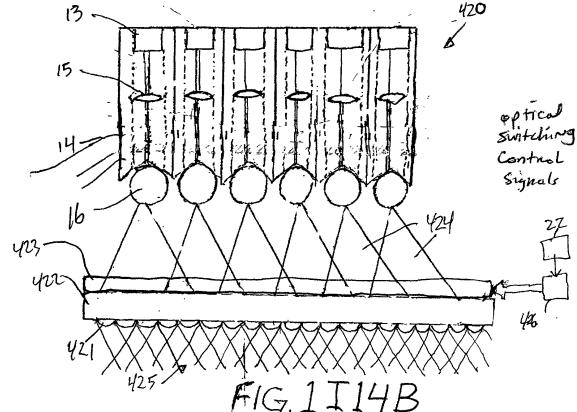
produce numerous substantially different time-varying specklenoise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

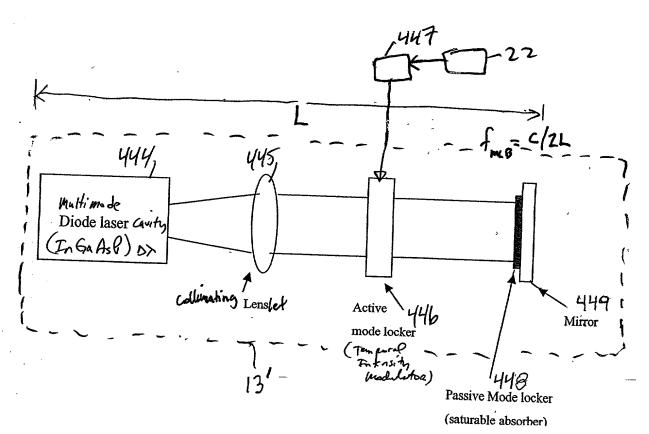
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Temporally average the numerous substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce power of the speckle-noise pattern observed at the image detection array.

F16 1 1 1 3 B







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F1G.1115B



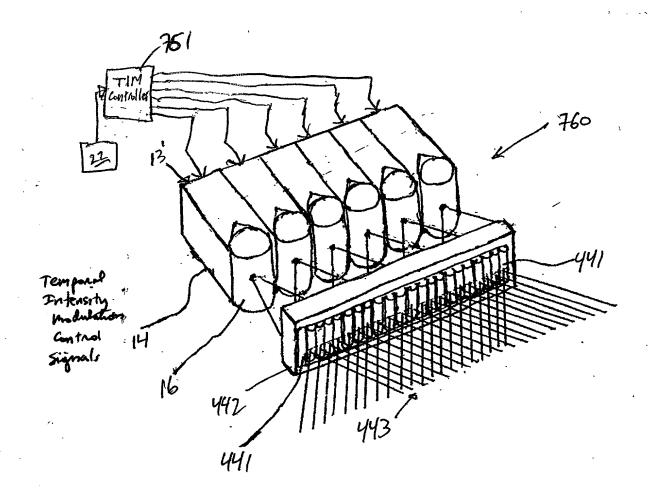
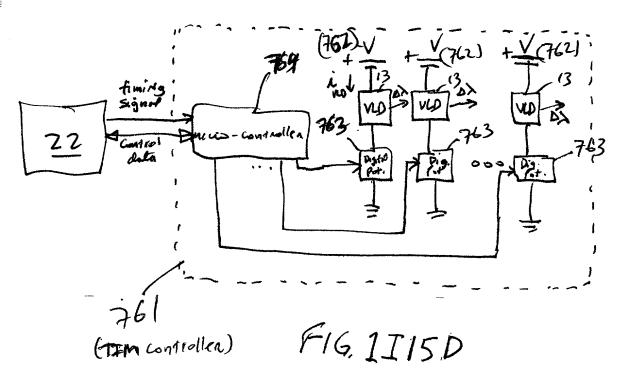
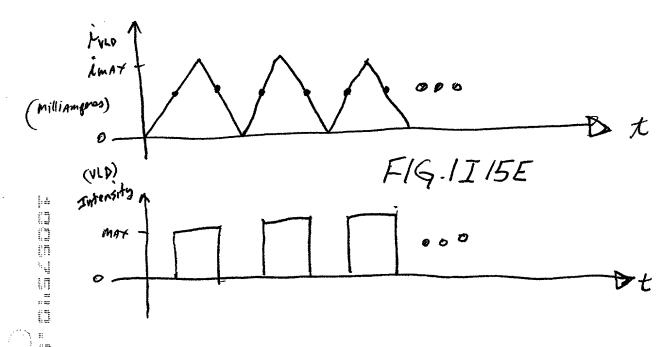


FIG. 1 I 15 C



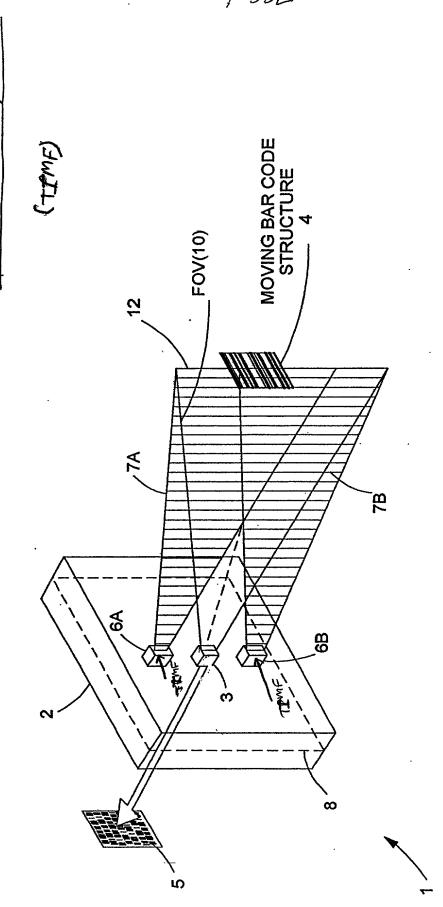


F19.1115E

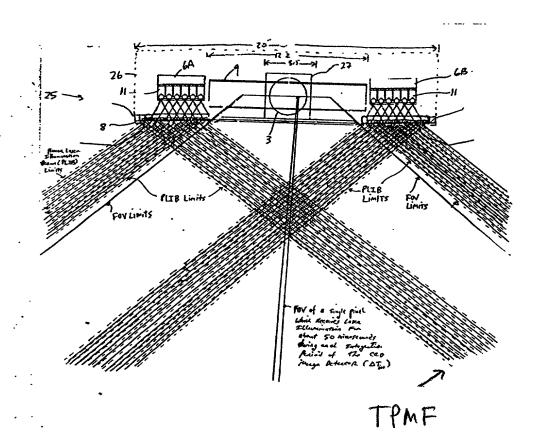
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+FO Sissystem

Fluorge Defection



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F16. 1 I 16A

# Thind Generalized Speckle-Noise Pattern Reduction Method Of The Present Invention

Prior to illumination of the target with the planar laser illumination beam (PLIB), modulate the temporal phase of the transmitted PLIB along the planar extent thereof according to a respect phase modulation function (TPMF) so as to

A

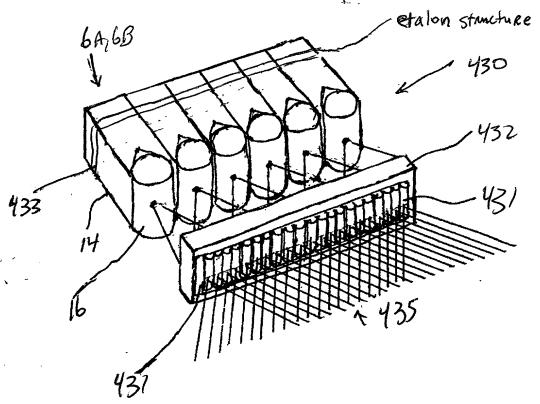
produce numerous substantially different time-varying specklenoise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

Q

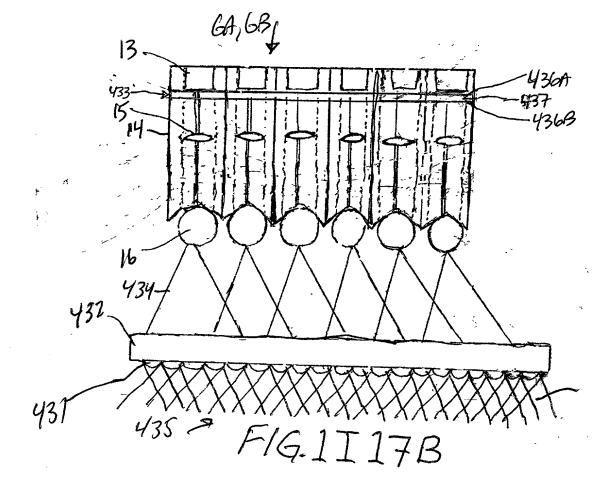
Temporally average the numerous substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce power of the speckle-noise pattern observed at the image detection array.

FIG 11/6B





F16. 1I17A



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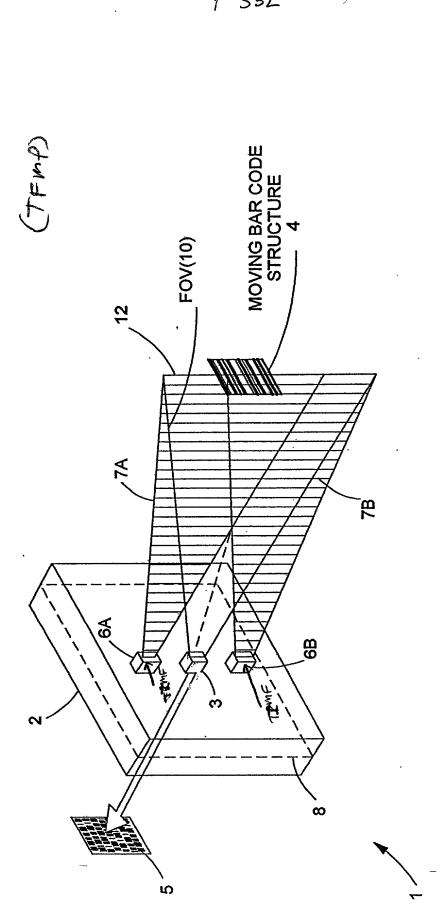
FIG. IIITE

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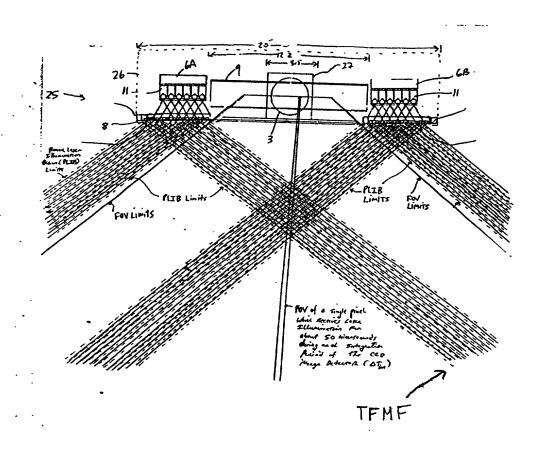
TFO Subsystem (3.

Flunge Detection Hovan

Reducing Special Noise



F16, 1I18A



F16. 1 I 18A

## Fourth Generalized Speckle-Noise Pattern Reduction Method Of The Present Invention

Prior to illumination of the target with the planar laser illumination beam (PLIB), modulate the temporal friquency of the transmitted PLIB according to a temporal intensity modulation function

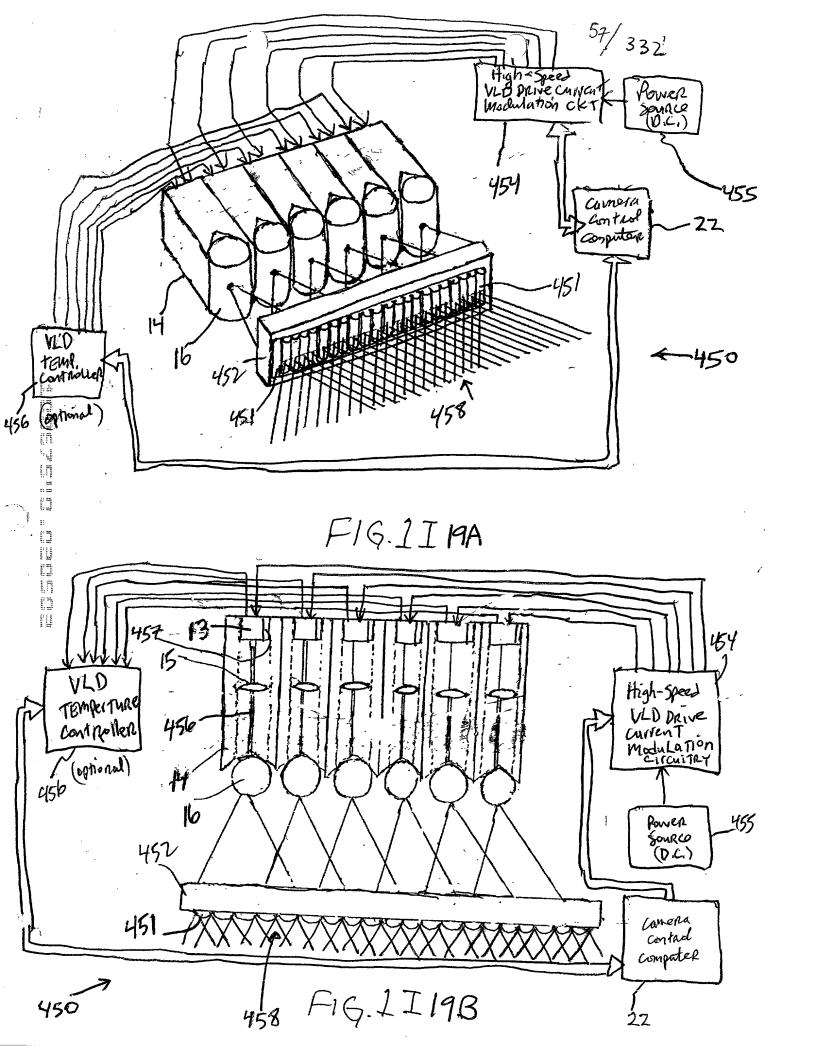
(T MF) so as to;

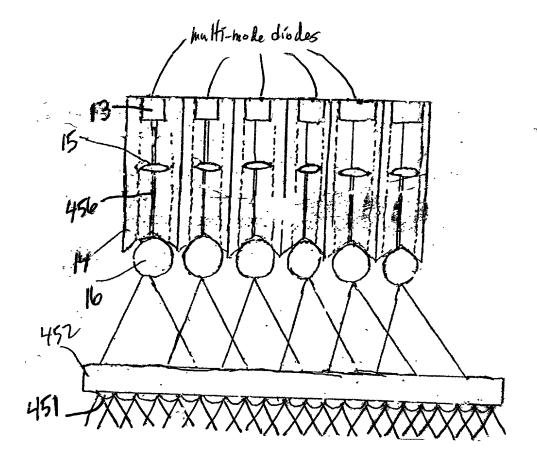
produce numerous substantially different time-varying specklenoise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

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Temporally average the numerous substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce power of the speckle-noise pattern observed at the image detection array.

R



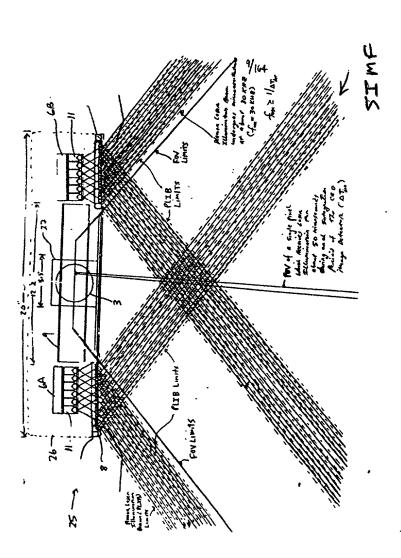


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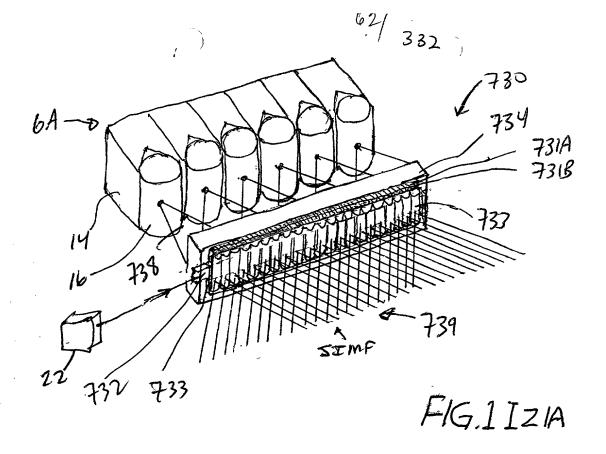
# Generalized Speckle-Noise Pattern Reduction Method Of The Present Invention

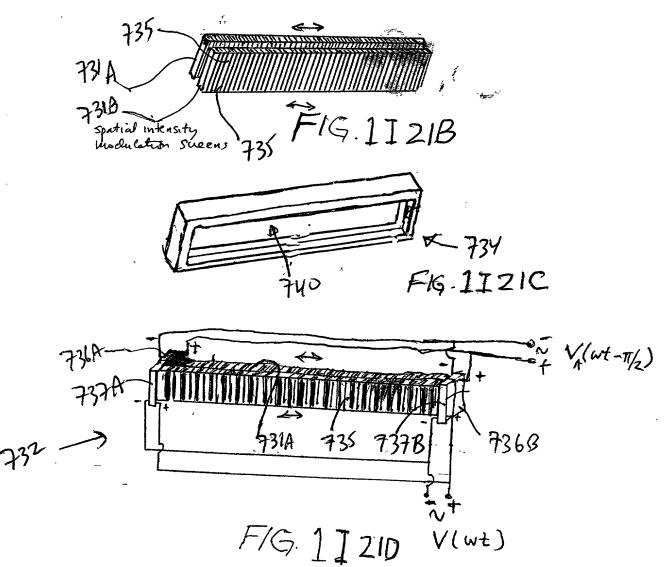
Prior to illumination of the target with the planar laser illumination beam (PLIB), modulate the spatial intensity of the transmitted PLIB along the planar extent thereof according to a spatial intensity modulation function (SIMF) so as to

produce numerous substantially different time-varying specklenoise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

Temporally average the numerous substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce power of the speckle-noise pattern observed at the image detection array.

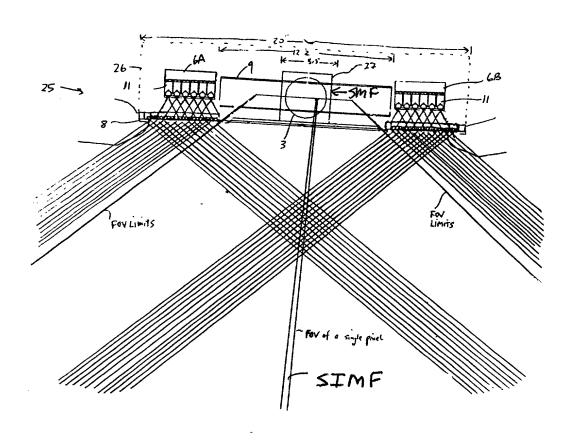
F16,1I20B





63/ Reduing Speckle-Noise Putterns 332 Image petertion appeals for IPO Subsystem (SIMF) MOVING BAR CODE STRUCTURE 4 FOV(10) all frill first that the street of and street in the street into the street into 76.1I22 ,7A STW F ω

ro /



F/G.1I22A

#### Sixth Generalized Speckle-Noise Pattern Reduction Method Of The Present Invention

After illumination of the target with the planar laser illumination beam (PLIB), modulate the spatial intensity of the reflected/scattered (i.e. received) PLIB along the planar extent thereof according to a spatial intensity modulation function (SIMF) so as to

produce numerous substantially different timevarying speckle-noise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

Temporally average the many substantially different time-varying specklenoise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce the speckle-noise pattern observed at the image detection array.

B

FIG. 11 22B

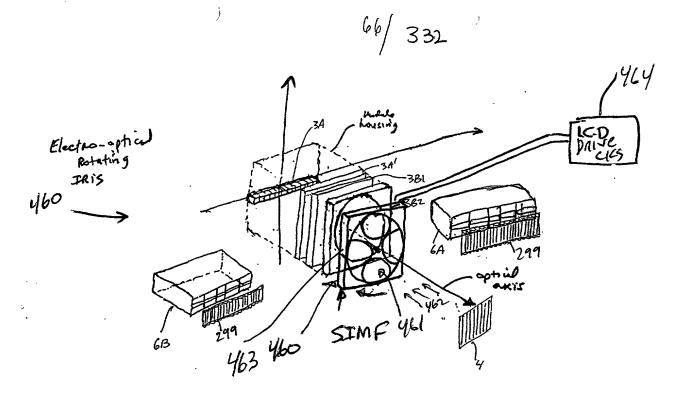


FIG.1I 23A

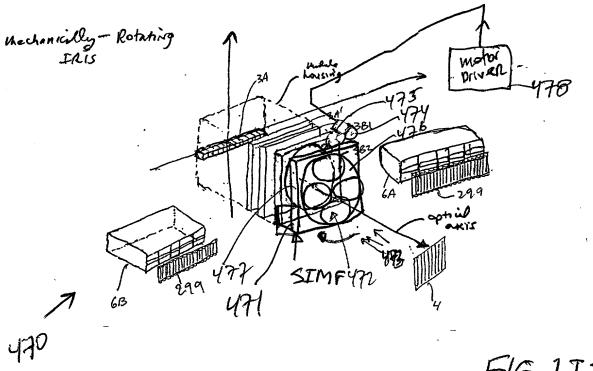
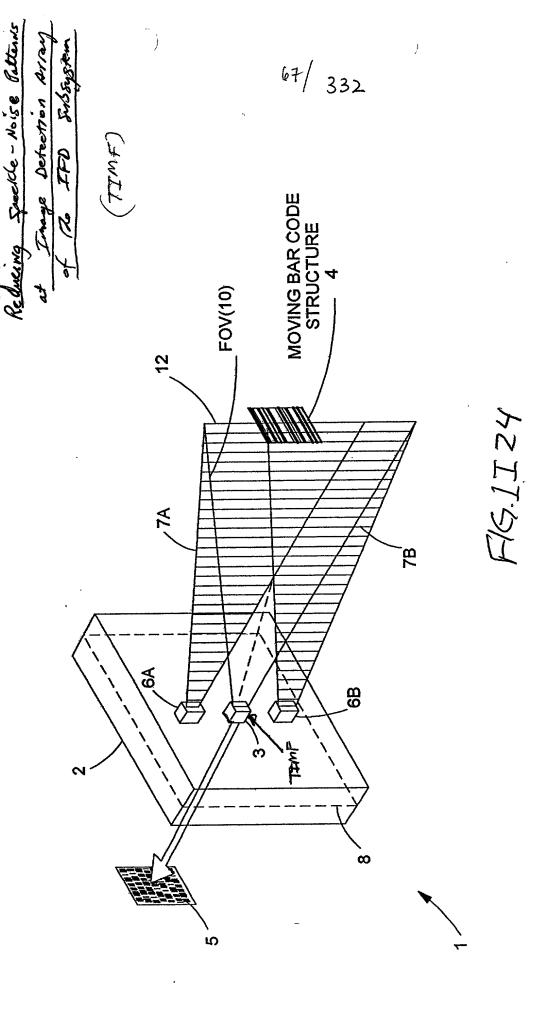


FIG. 1123B

Seventh Generalized method of



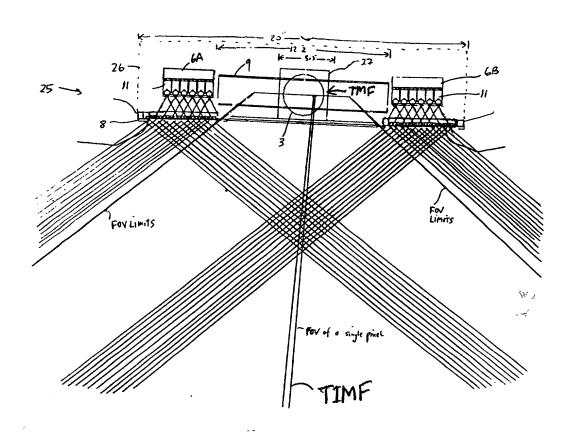


FIG.1I24A

## Generalized Speckle-Noise Pattern Reduction Method Of The Present Invention

After illumination of the target with the planar laser illumination beam (PLIB), modulate the temporal intensity of the reflected/scattered (i.e. received) PLIB along the planar extent thereof according to a temporal intensity modulation function (TIMF) so as to

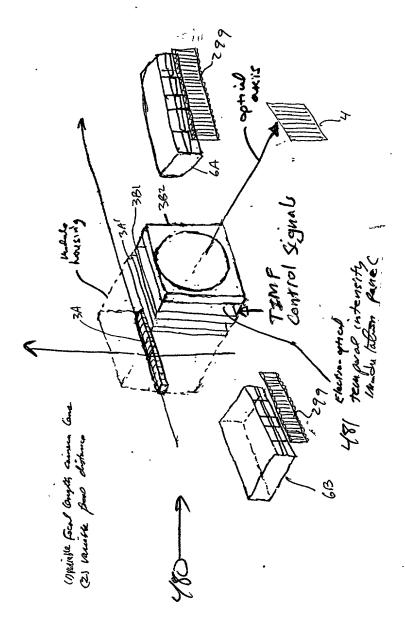
produce many substantially different

time-varying speckle-noise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

Temporally average the many substantially different time-varying specklenoise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce the speckle-noise pattern observed at the image detection array.

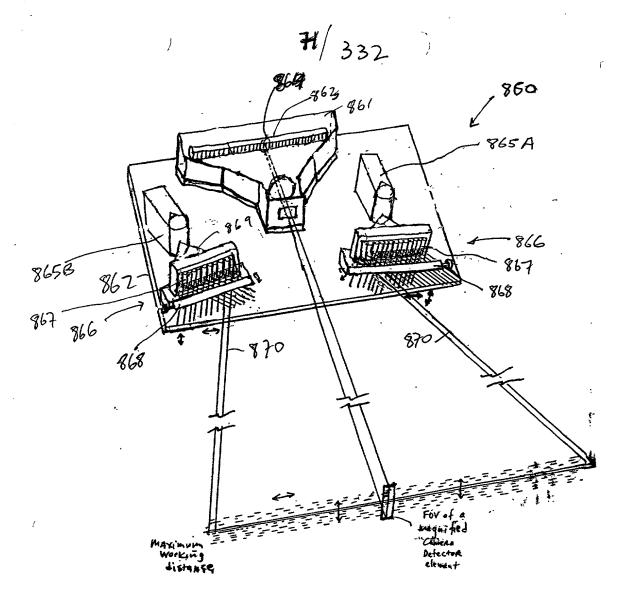
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FIG.1I24B



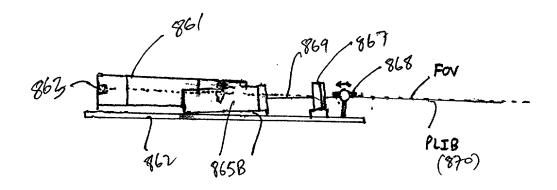
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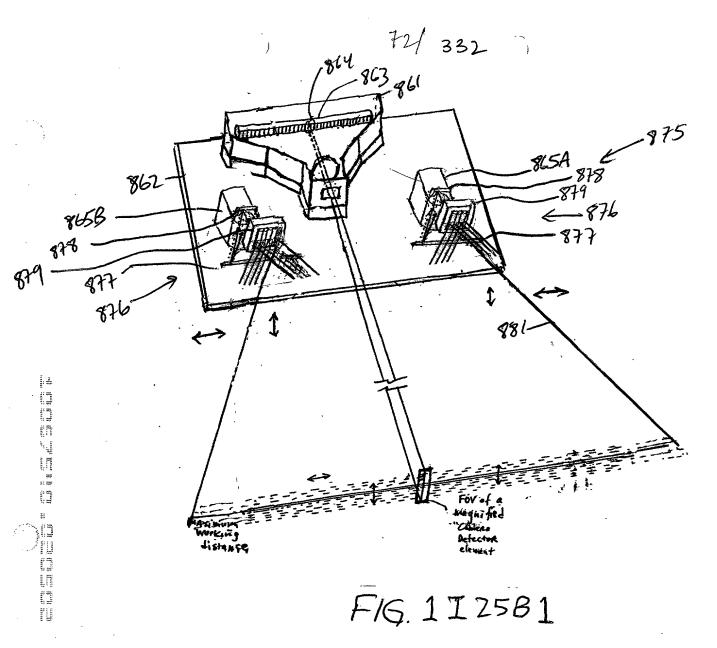


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F1G. 1I25A1



F/G.1IZ5AZ



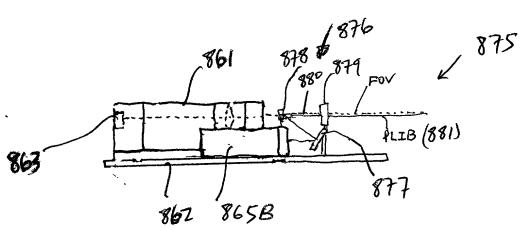
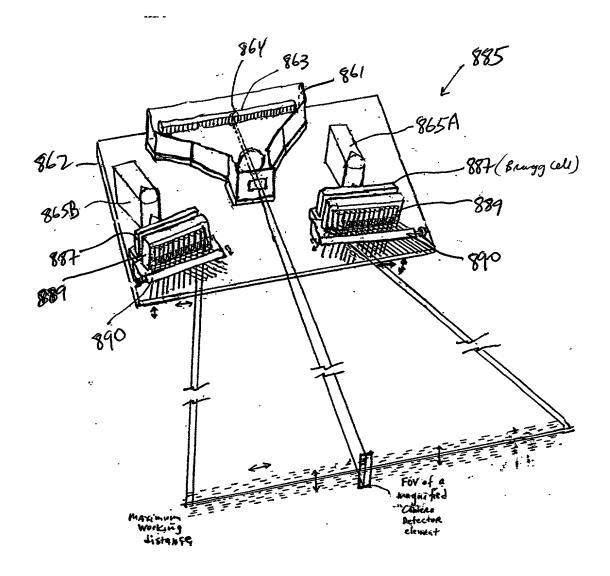
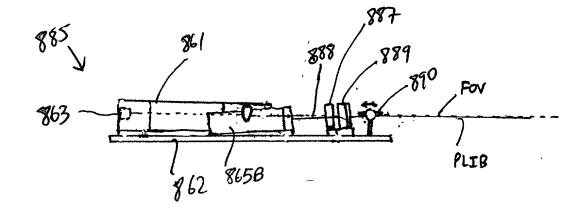


FIG. 1 I 25BZ

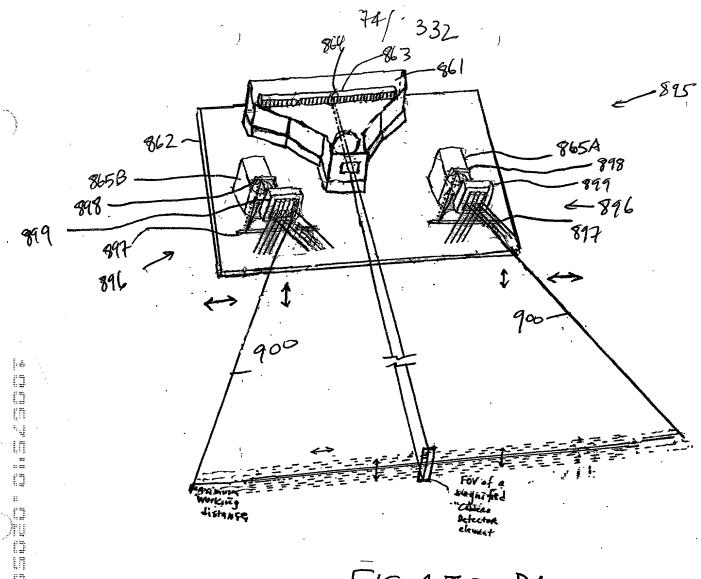


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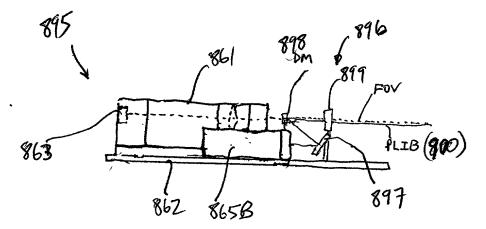
F19.1I25C1



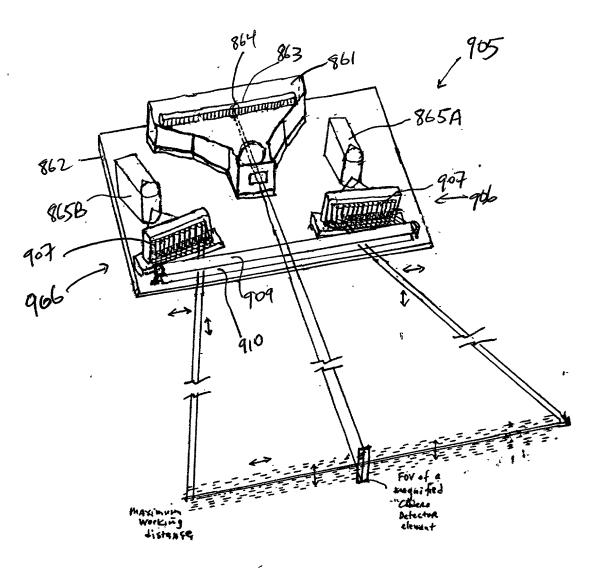
F/G.1I25C2

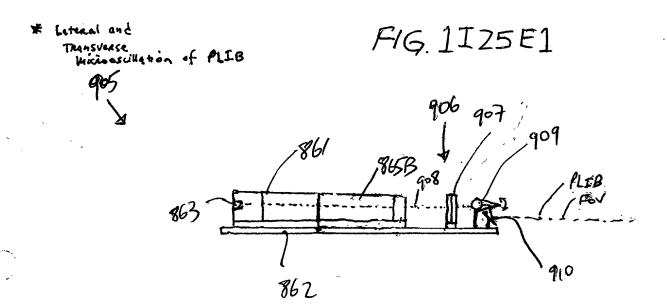


F/G. 1 I 25 D1

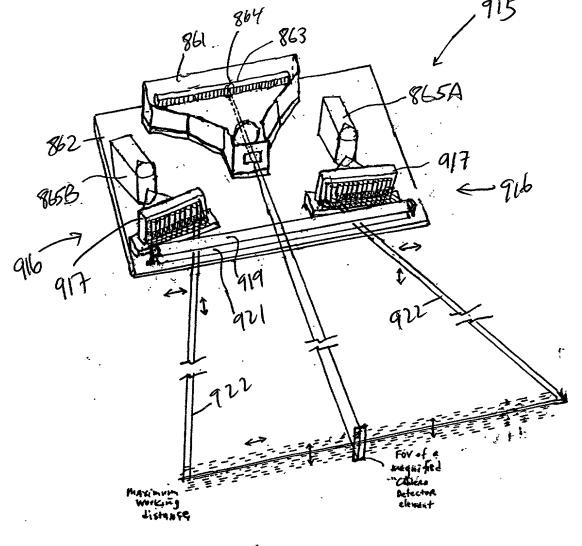


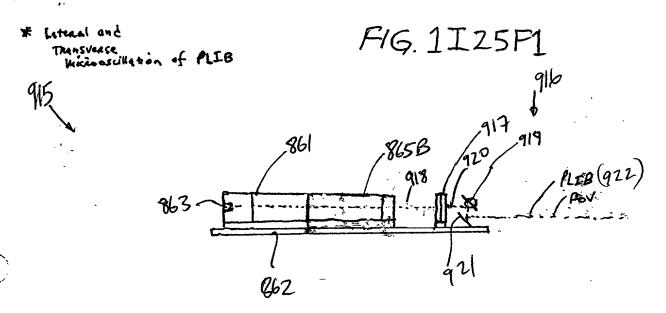
F16.1I25D2



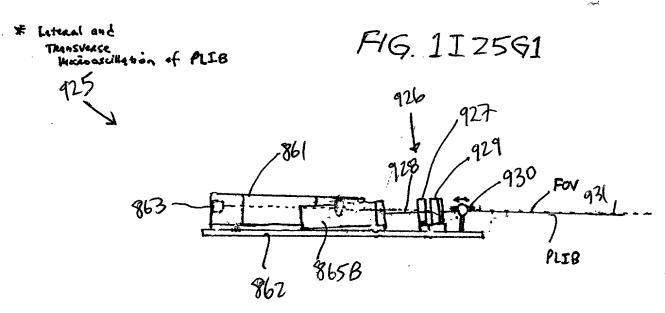


F/G. 1I25E2



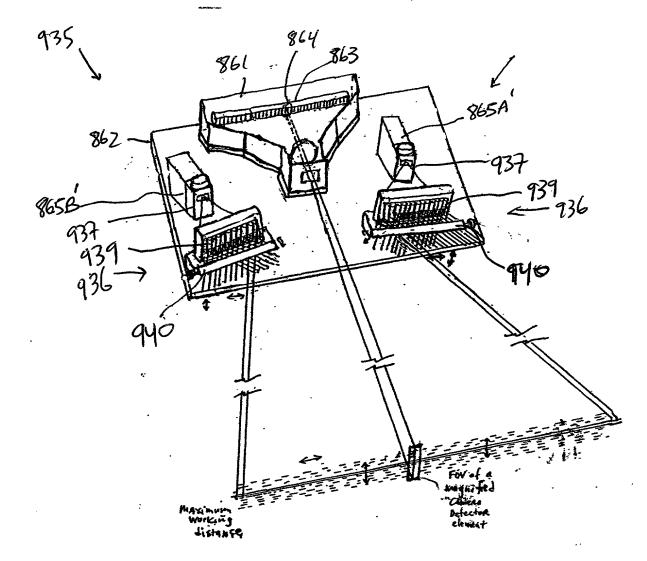


F16.1I25F2



F16.1I2562

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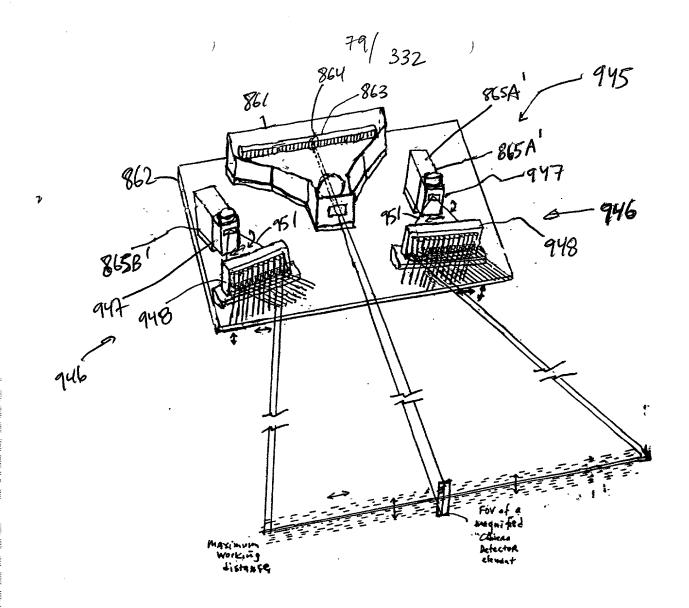
939

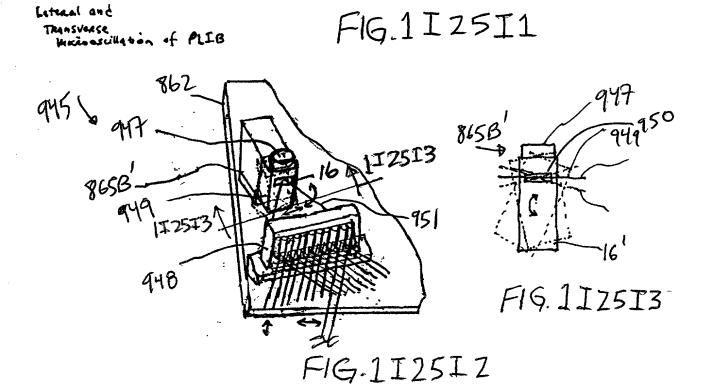
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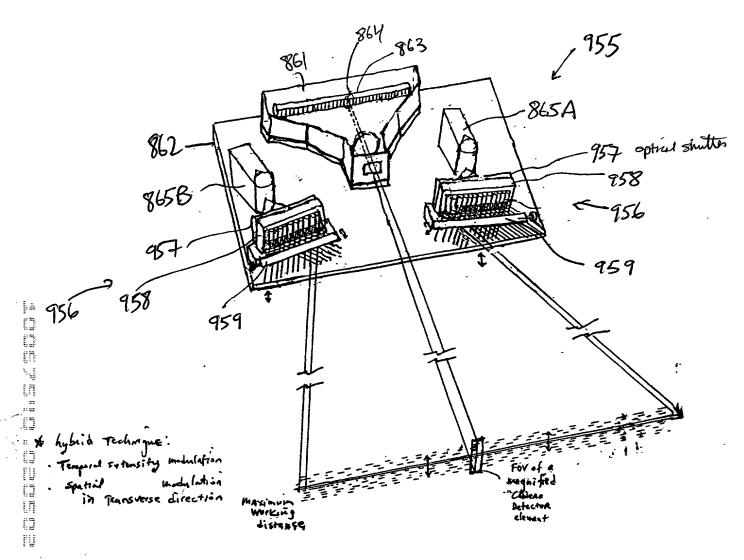
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FIG. 1125HZ







F16. 1IZ5JI

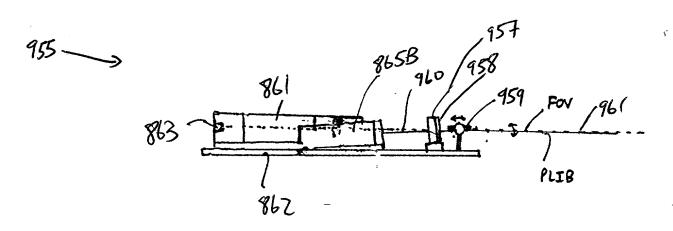
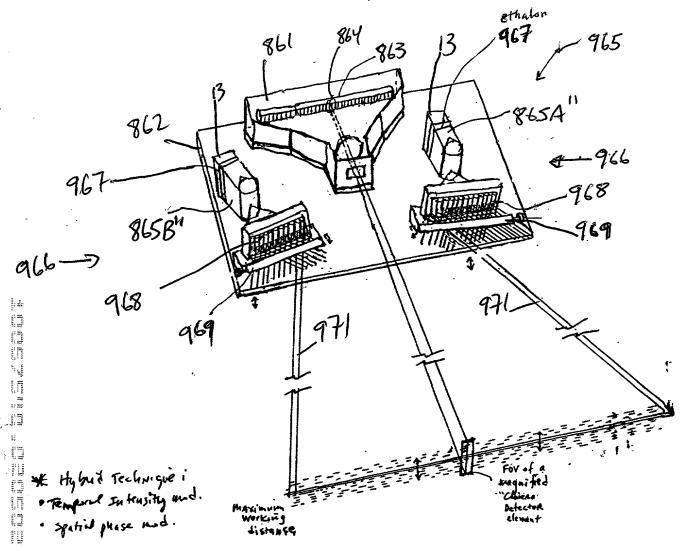


FIG. 1 I 25 JZ



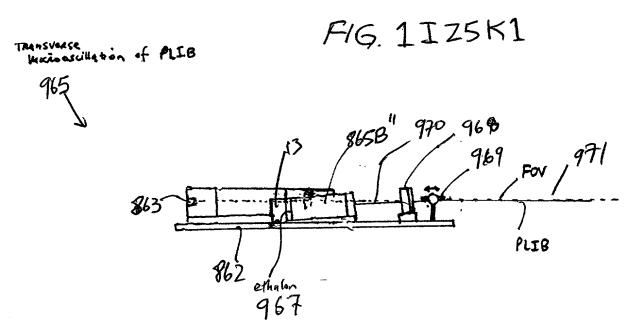
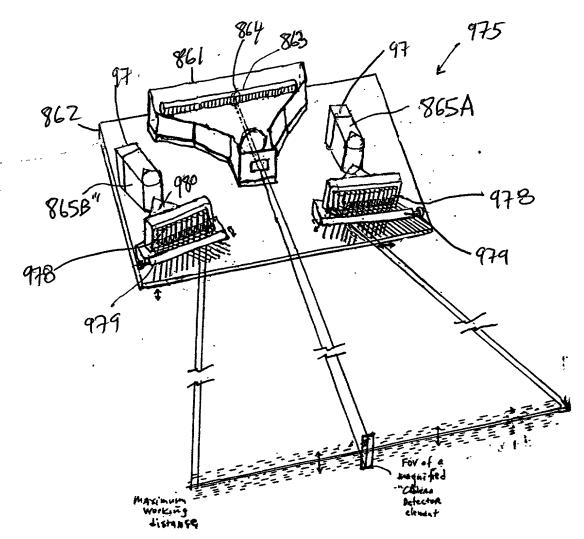


FIG.1I25KZ

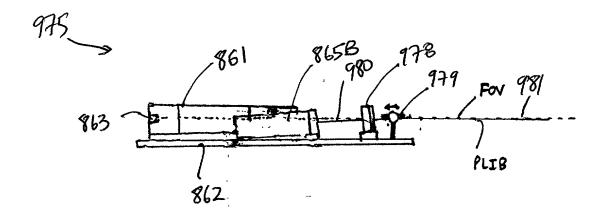


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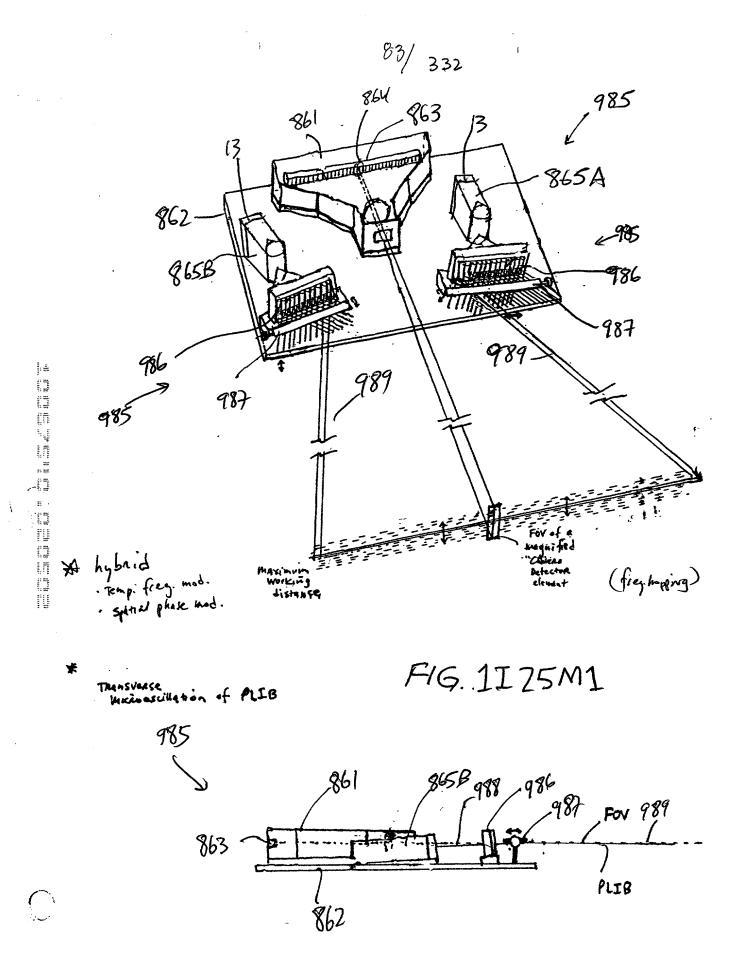
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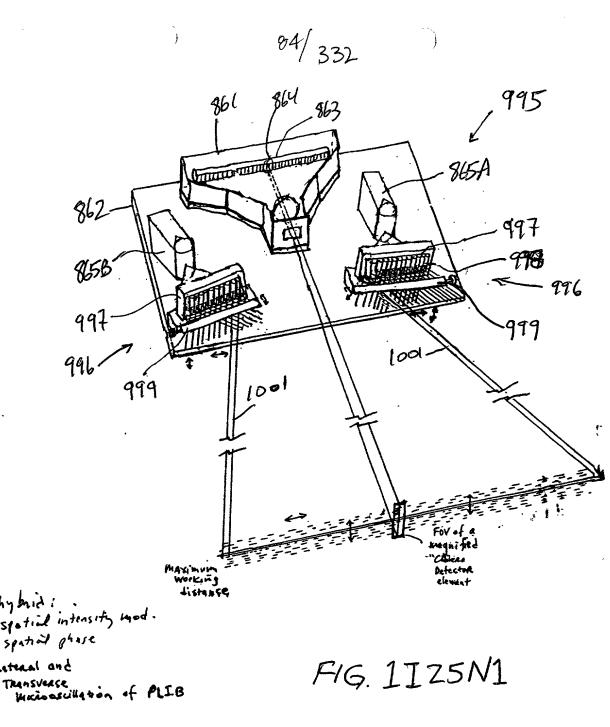
F16. 1I Z5 L1



F/G. 1I25L2



F/G. 1I 25MZ



863 FOV 100/ PLIB

F/G. 1I25NZ

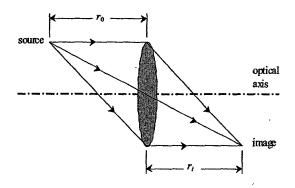
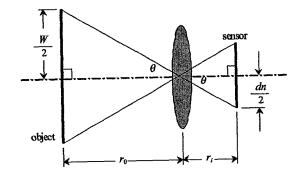
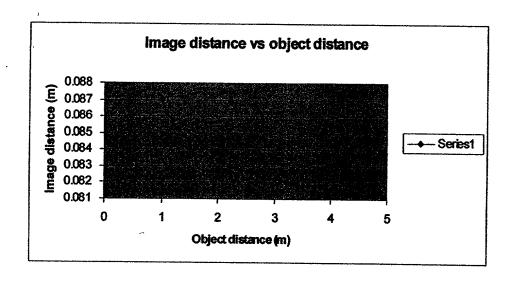


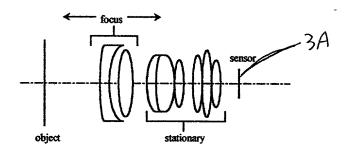
FIG. 141



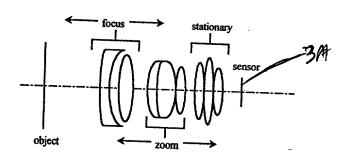
PIG. 1HZ



F/G. 1H3



F16. 1H4



F16.1H5

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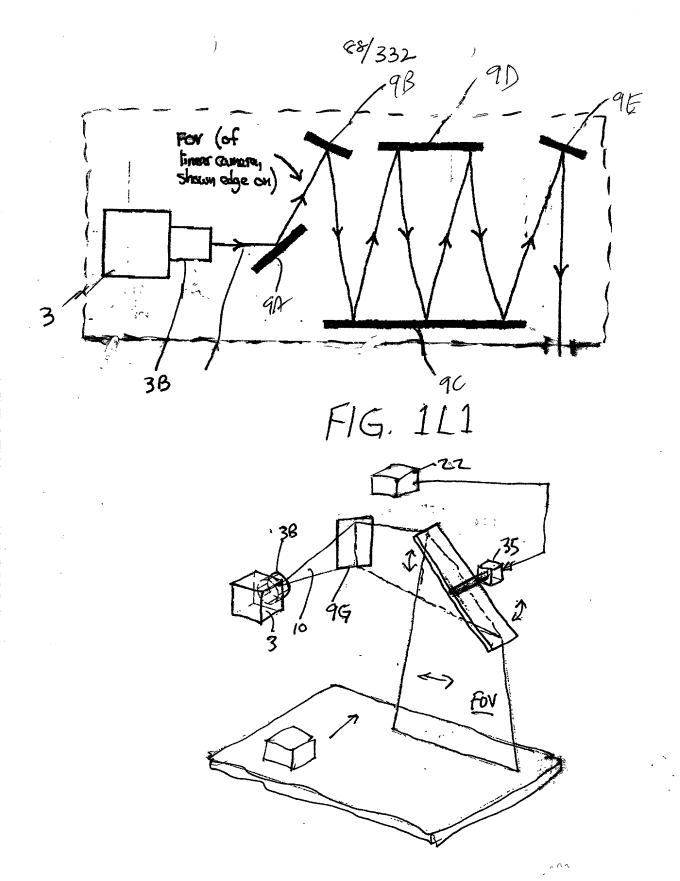
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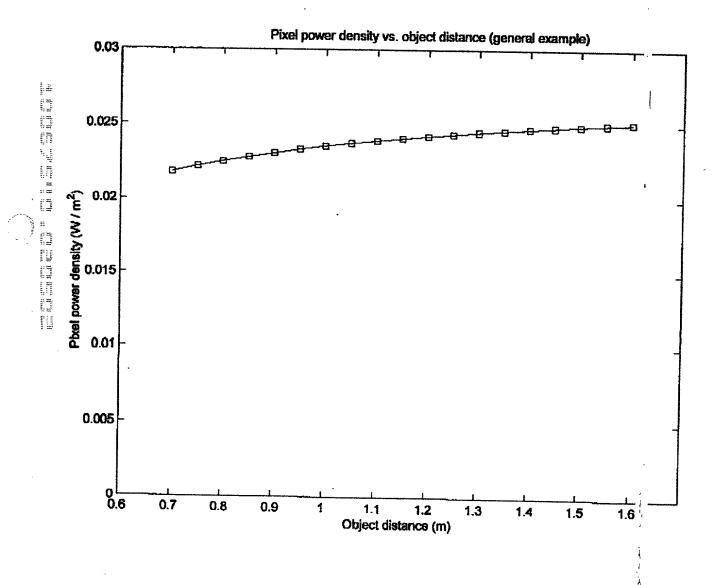
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F16.1LZ



F19.1M1

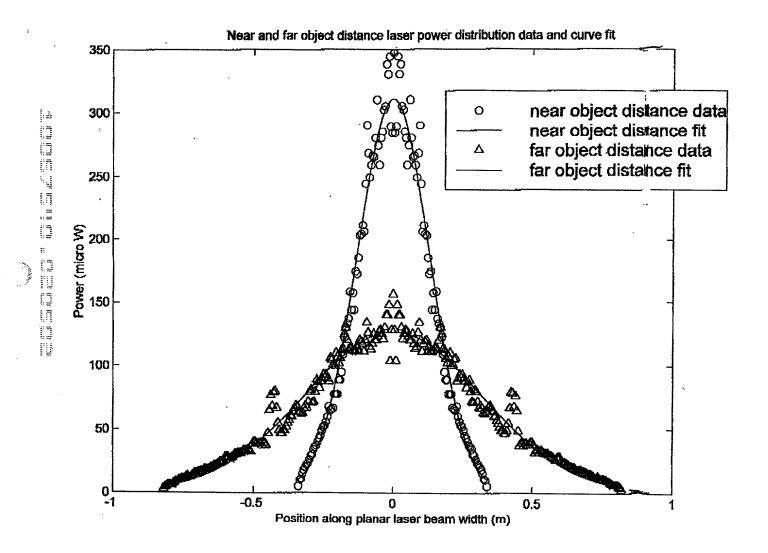
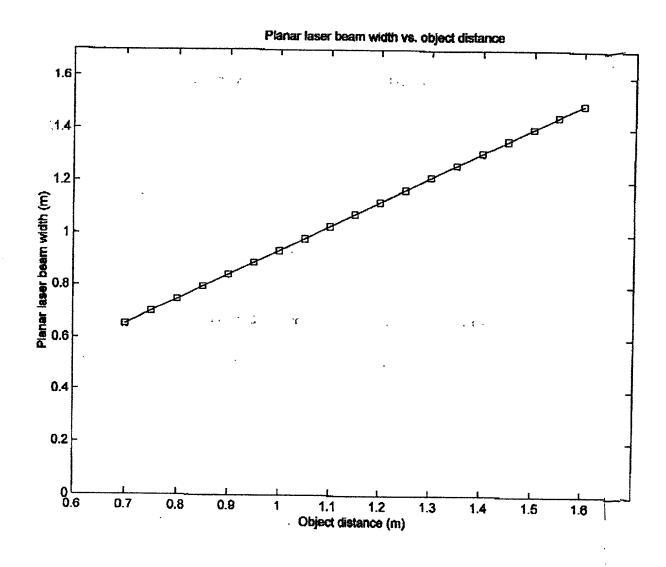
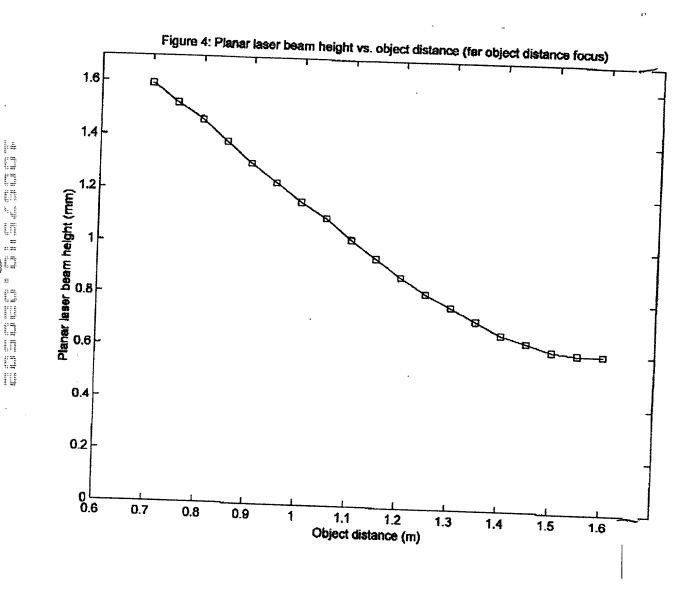


FIG./MZ

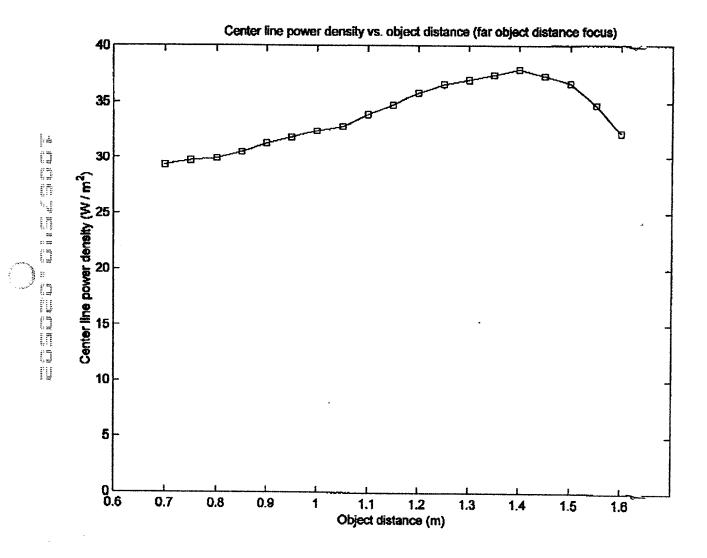


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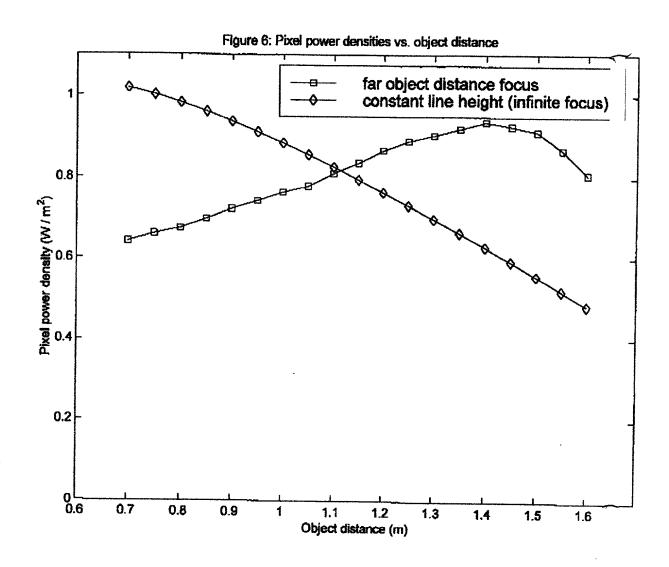
F16.1M3



F16-1M4



F1G.-1N



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F1G.10

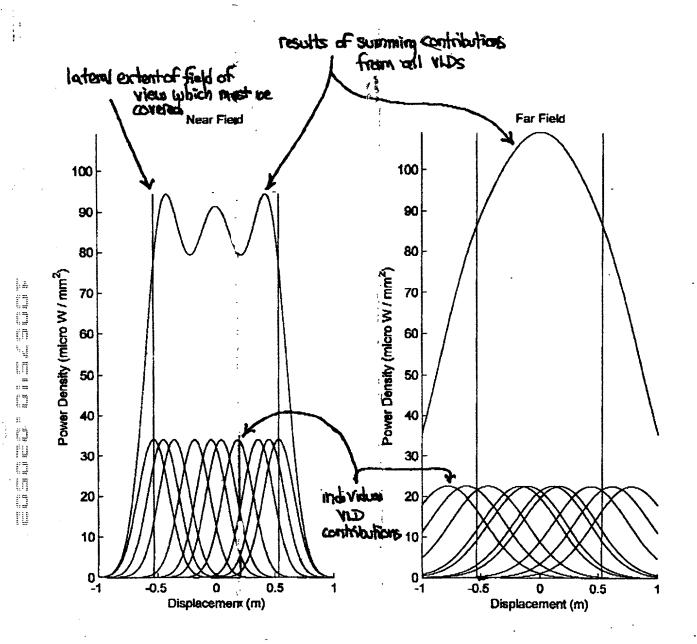
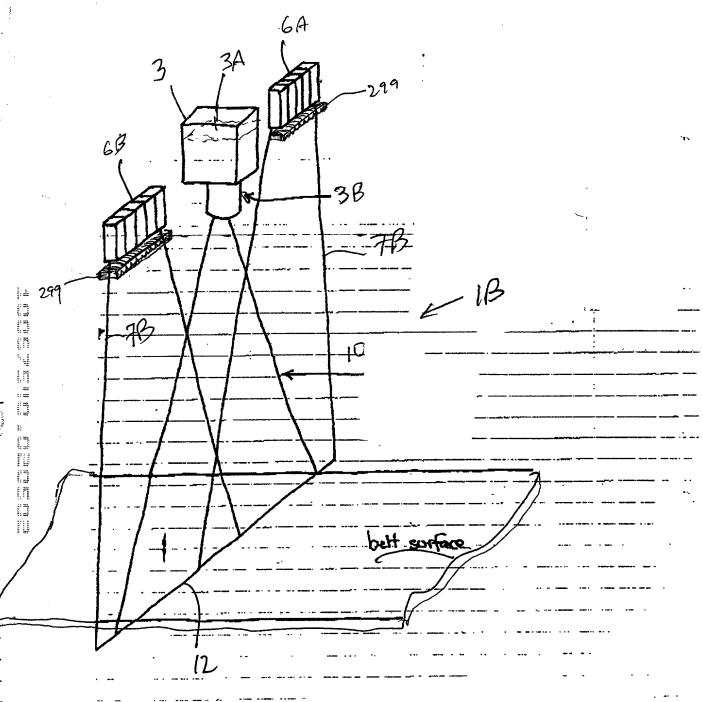
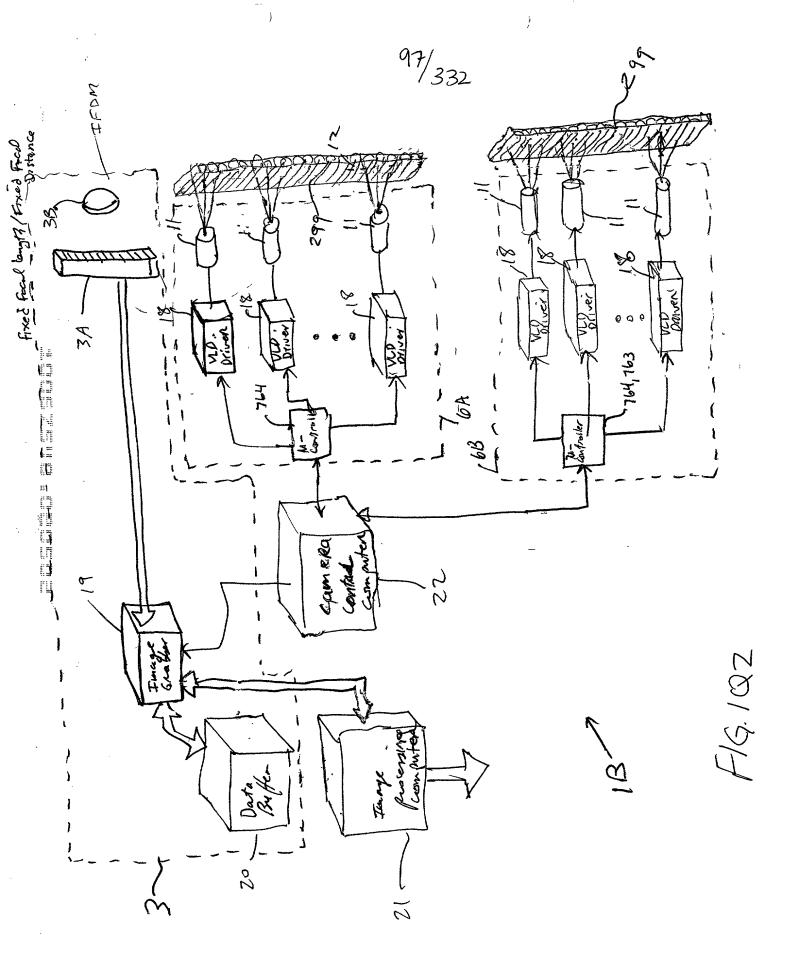


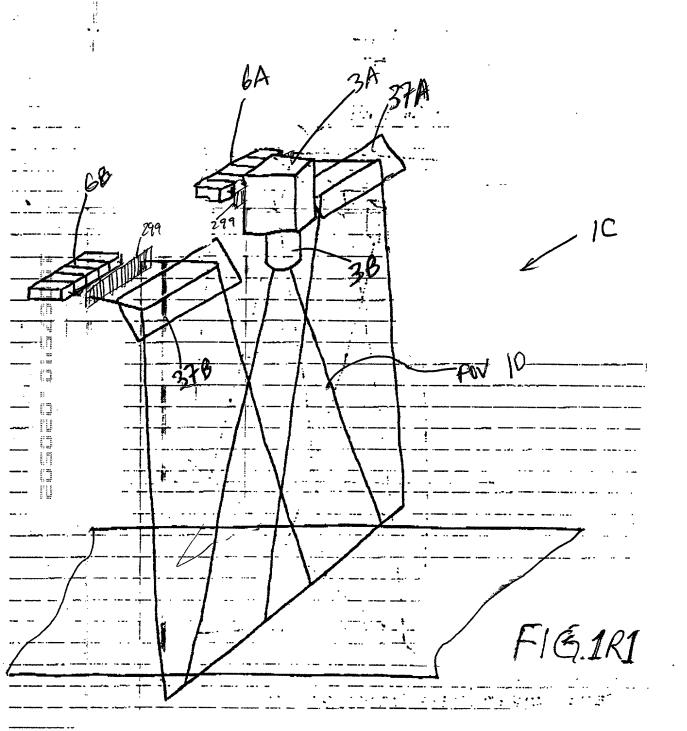
FIG.1P1

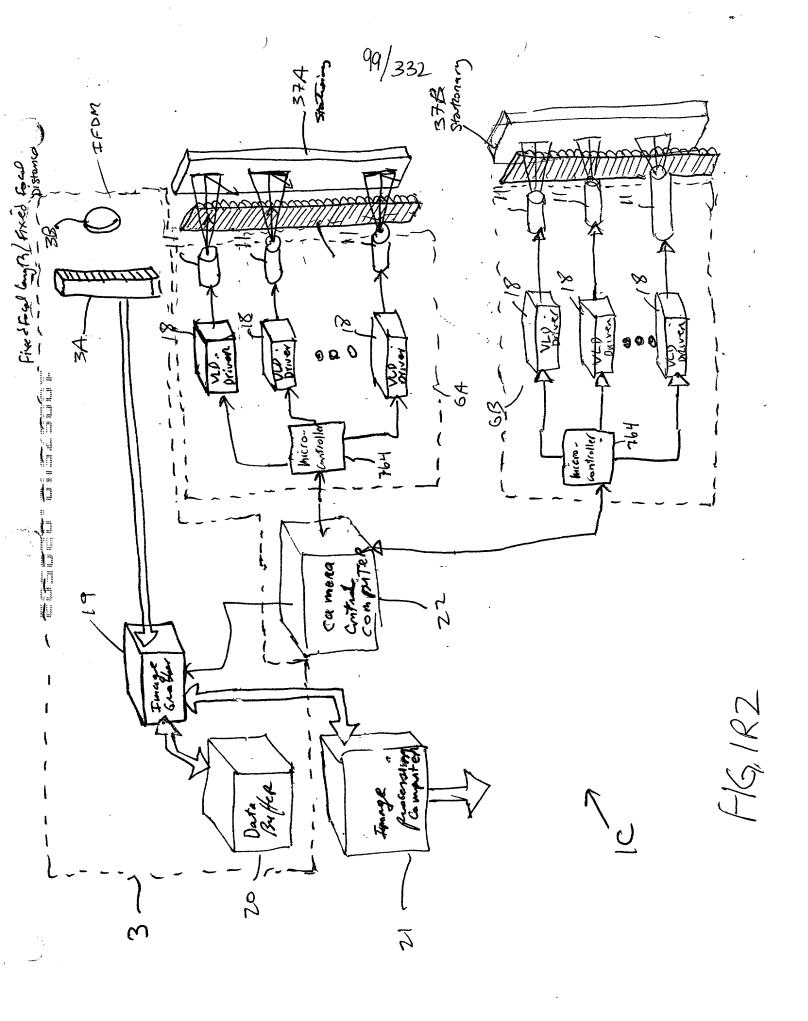
F19 182

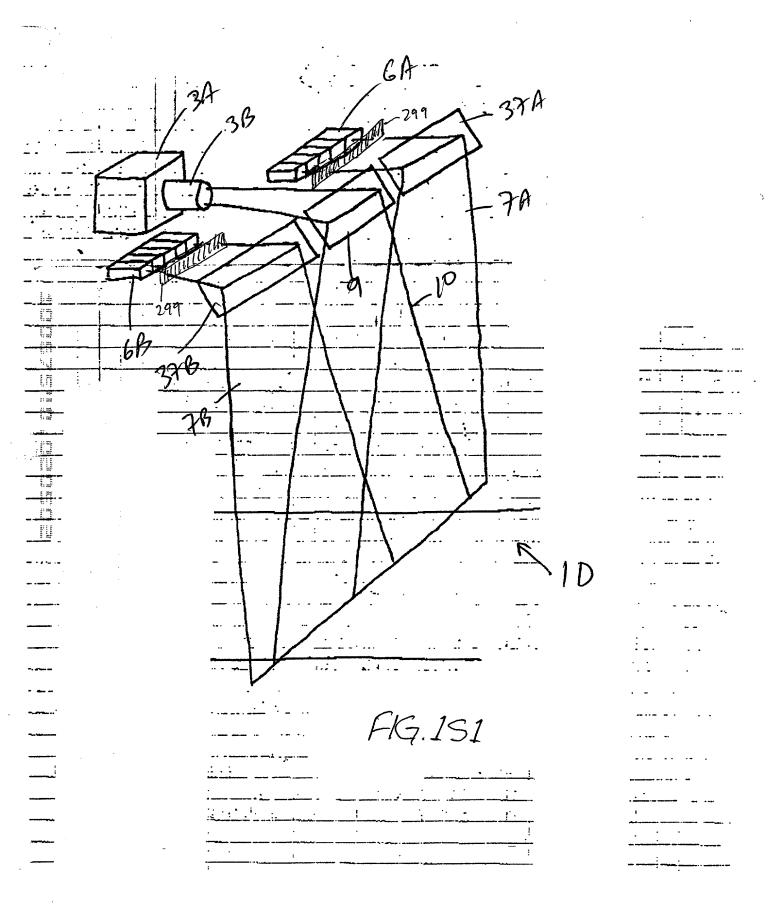


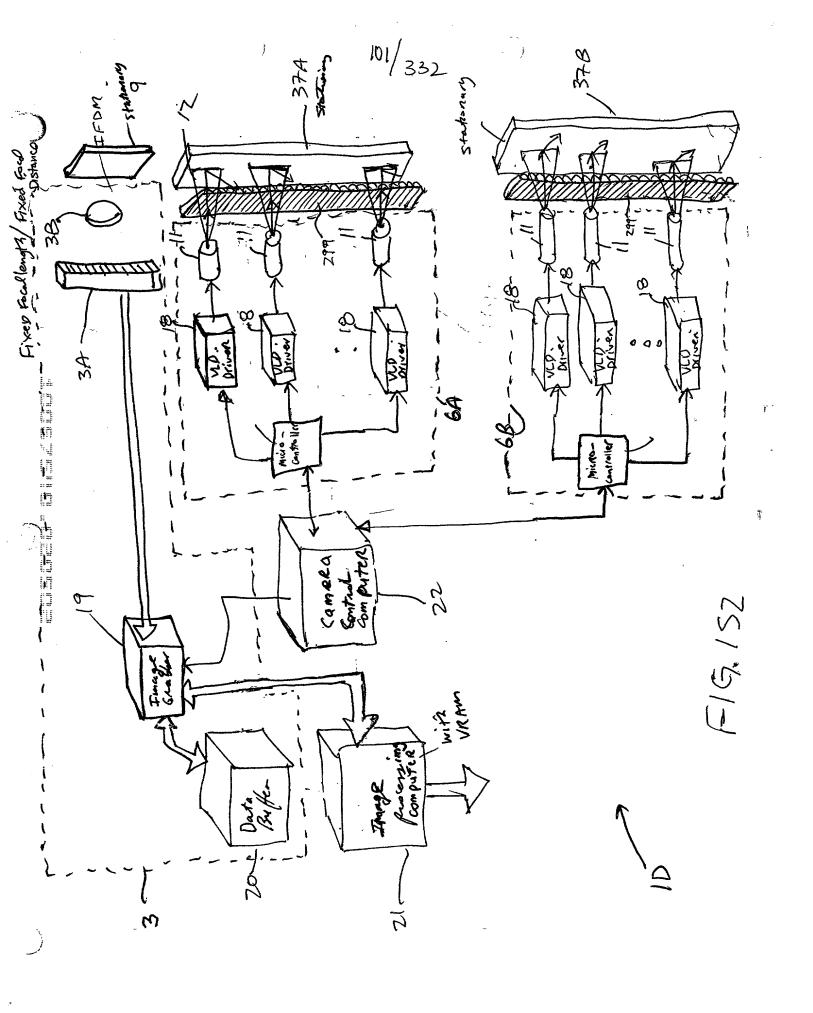
F1G. 1Q1

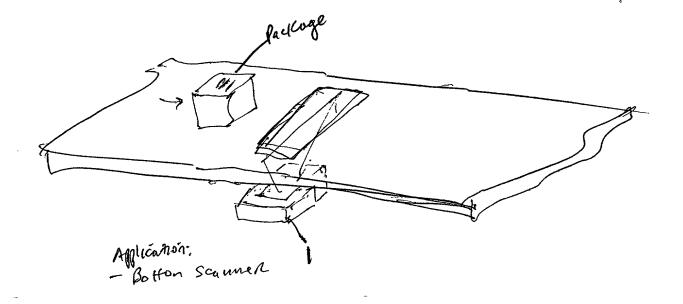




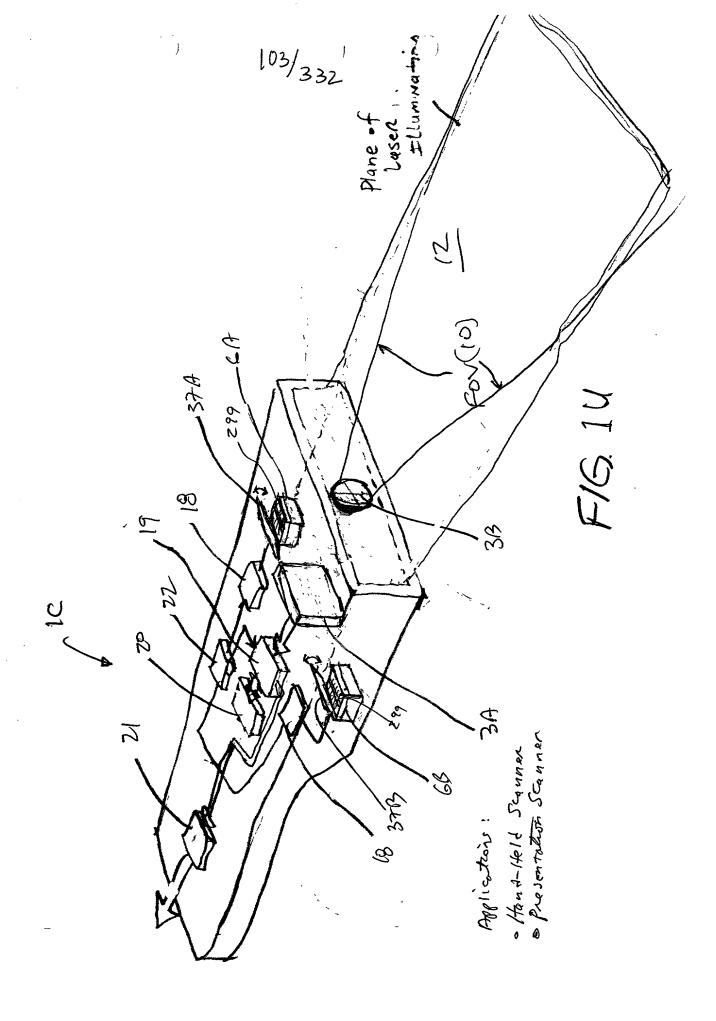






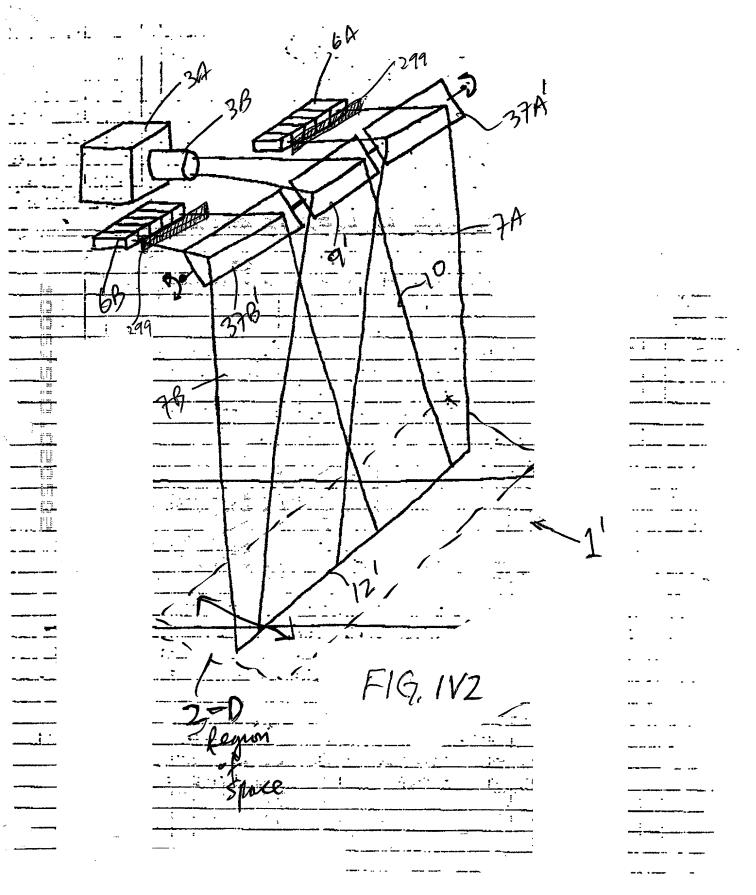


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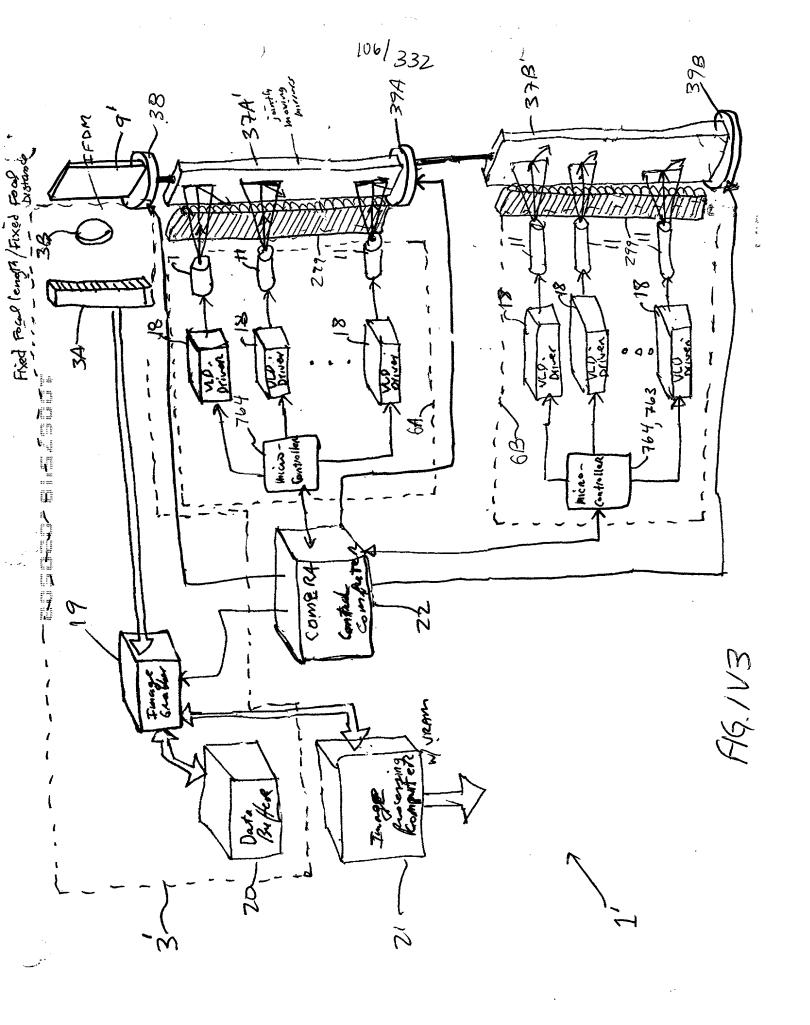


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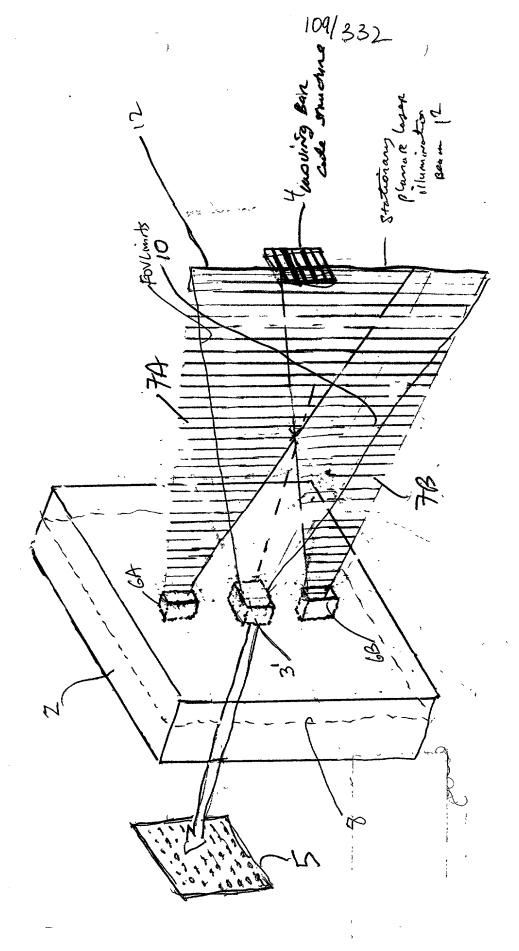
F19.1V1



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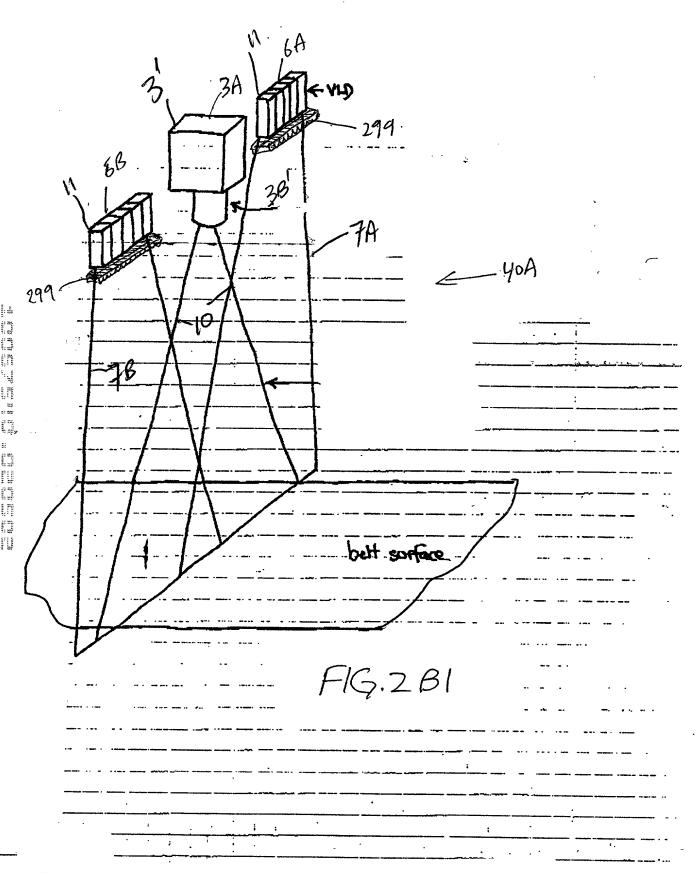


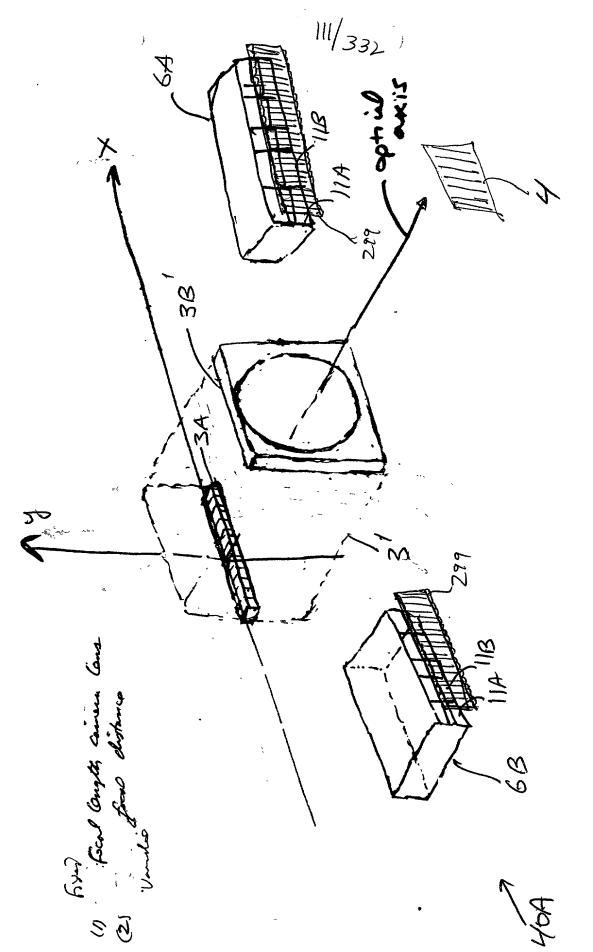
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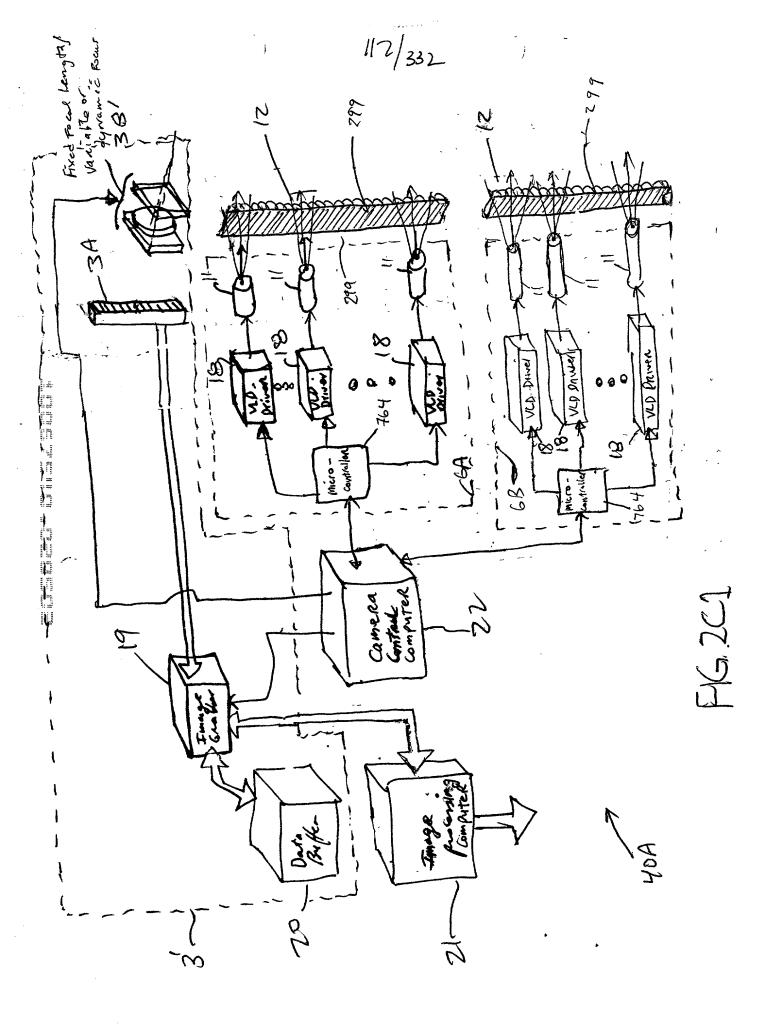
F1G. 2A

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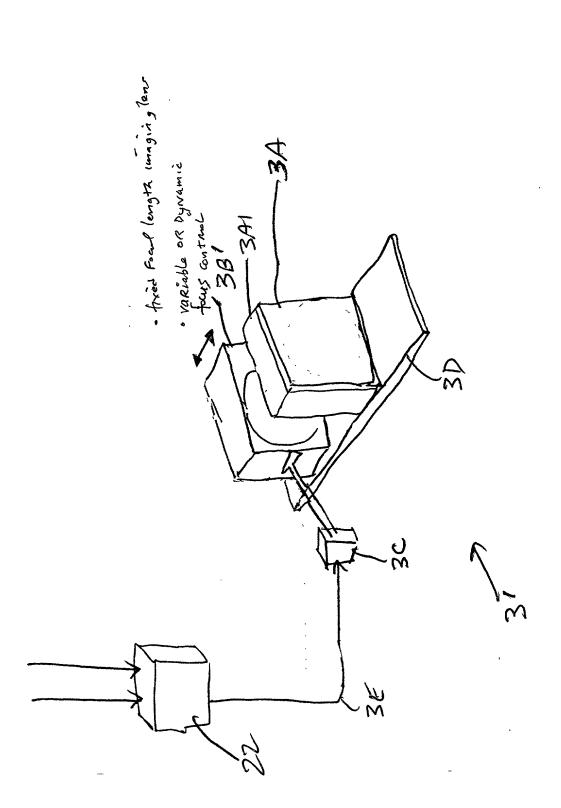




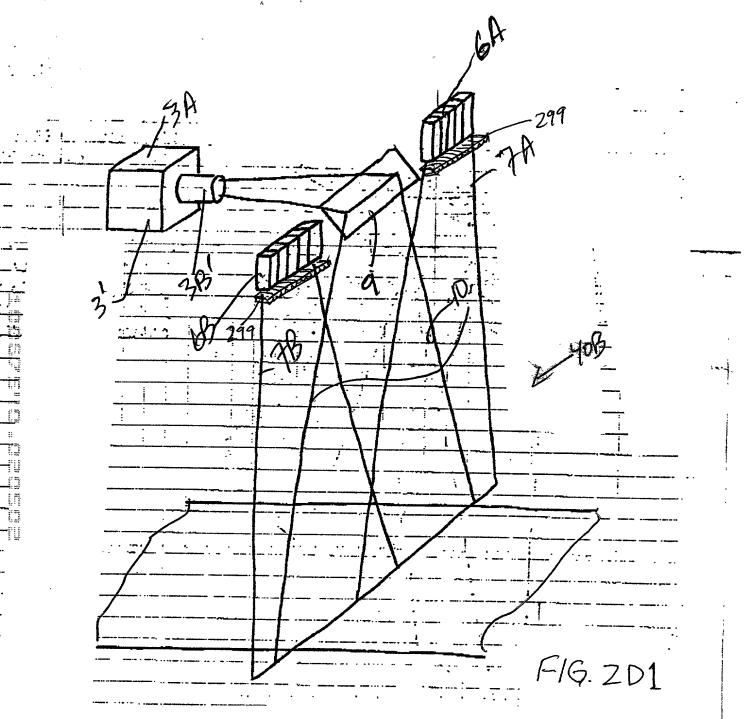
F1G 2B2

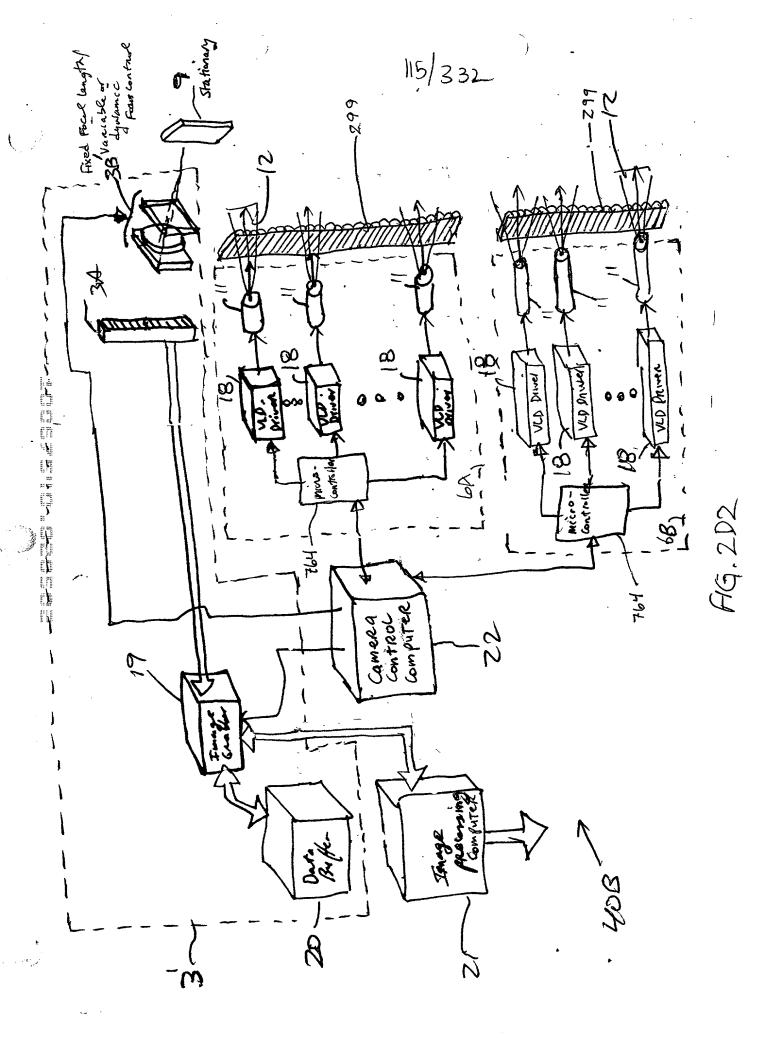


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F1G. 262

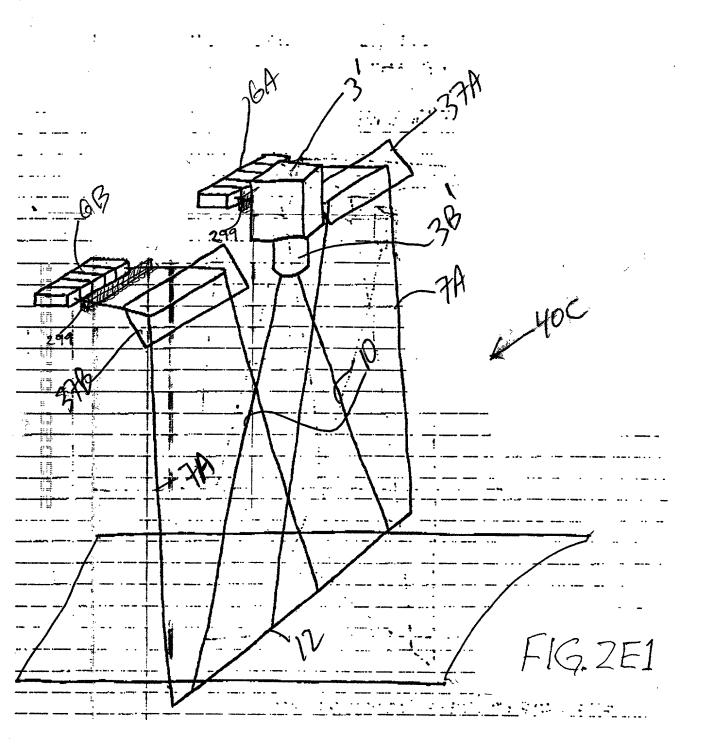




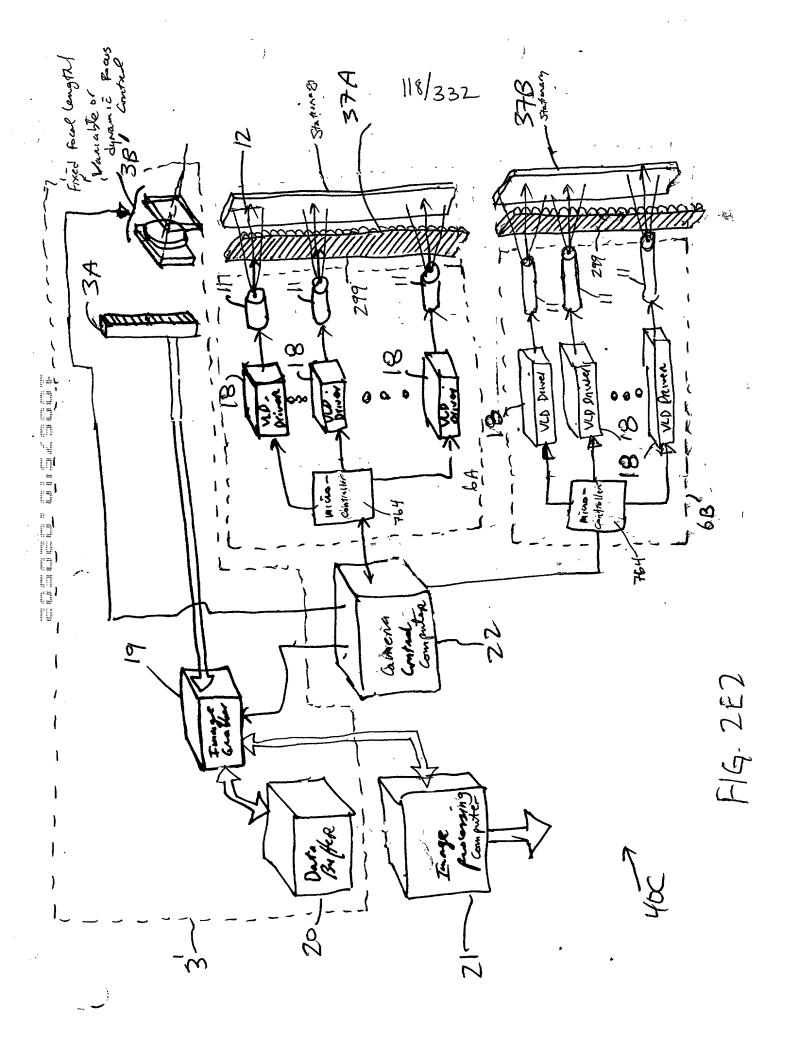
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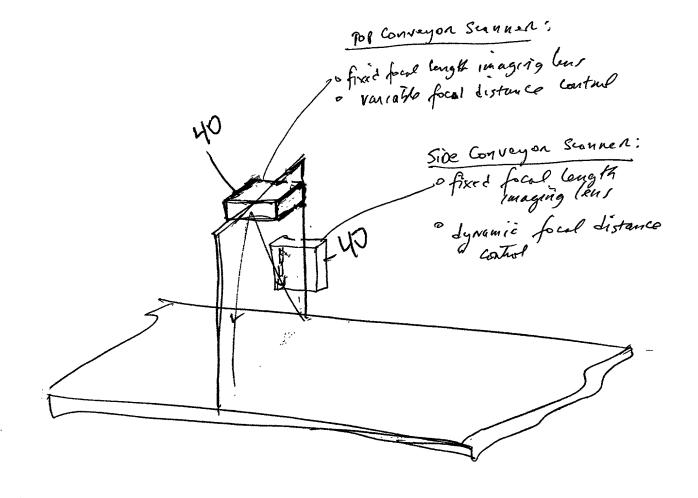
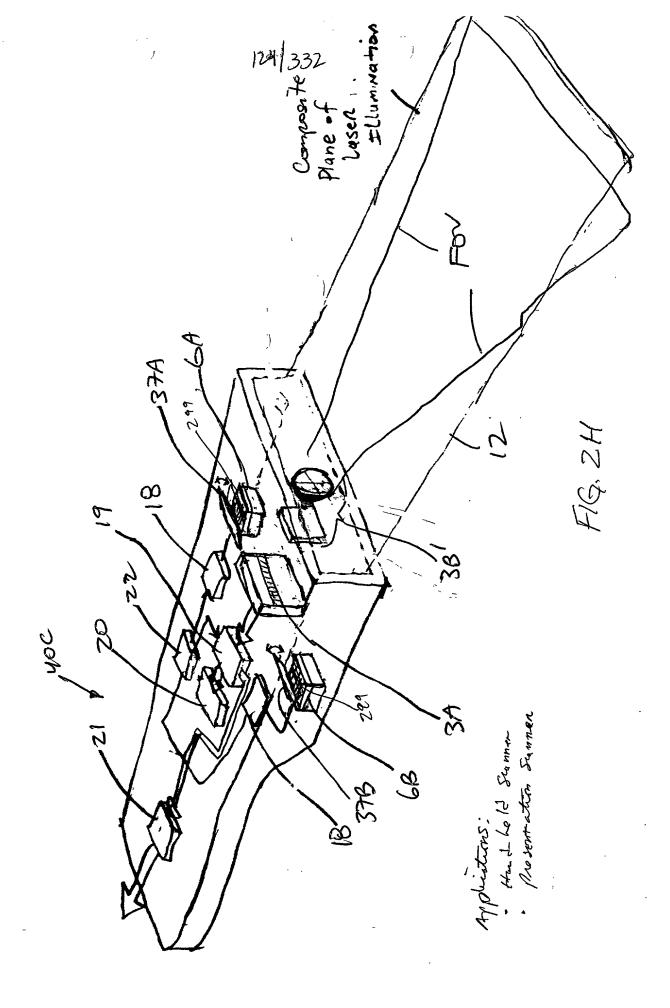
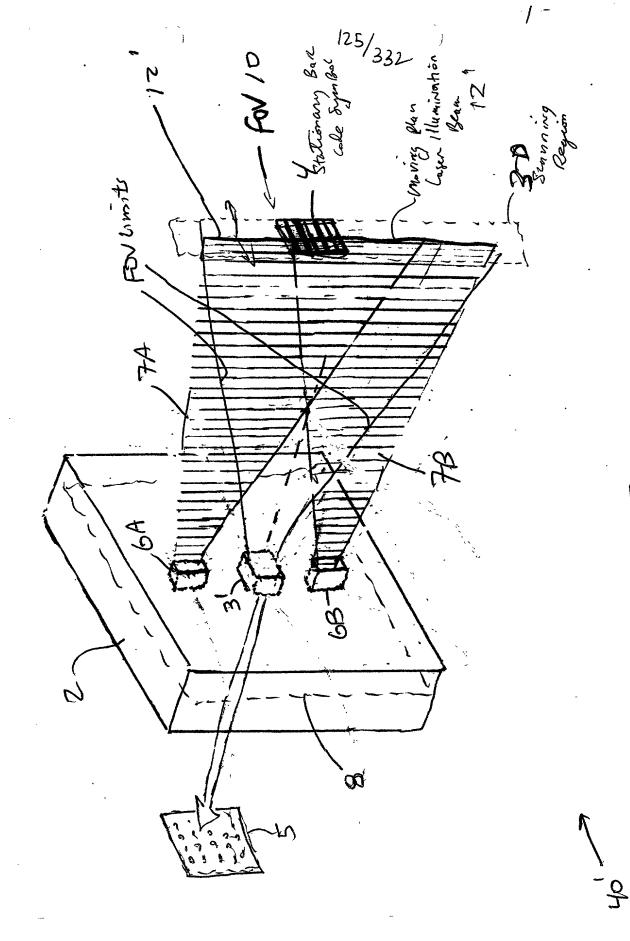


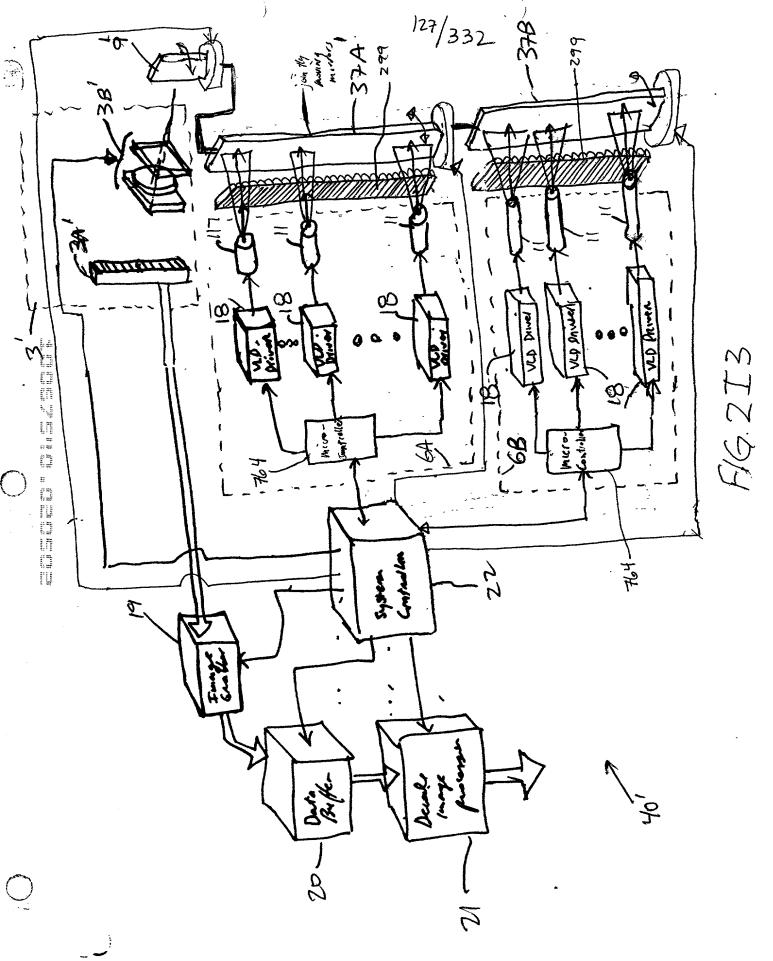
FIG. 2G



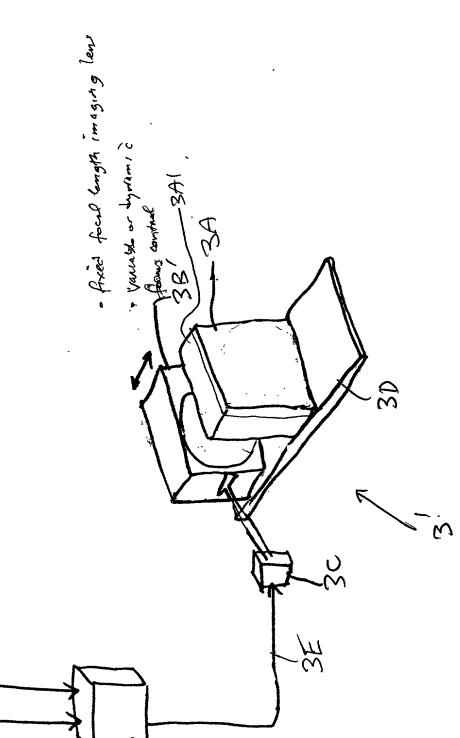


F19,2I1

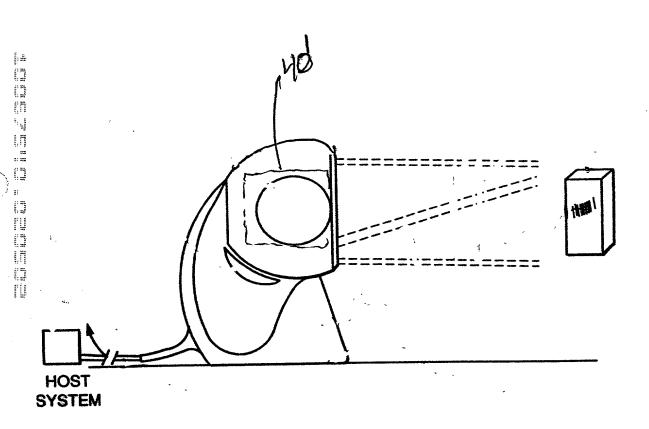
F16, 2IZ



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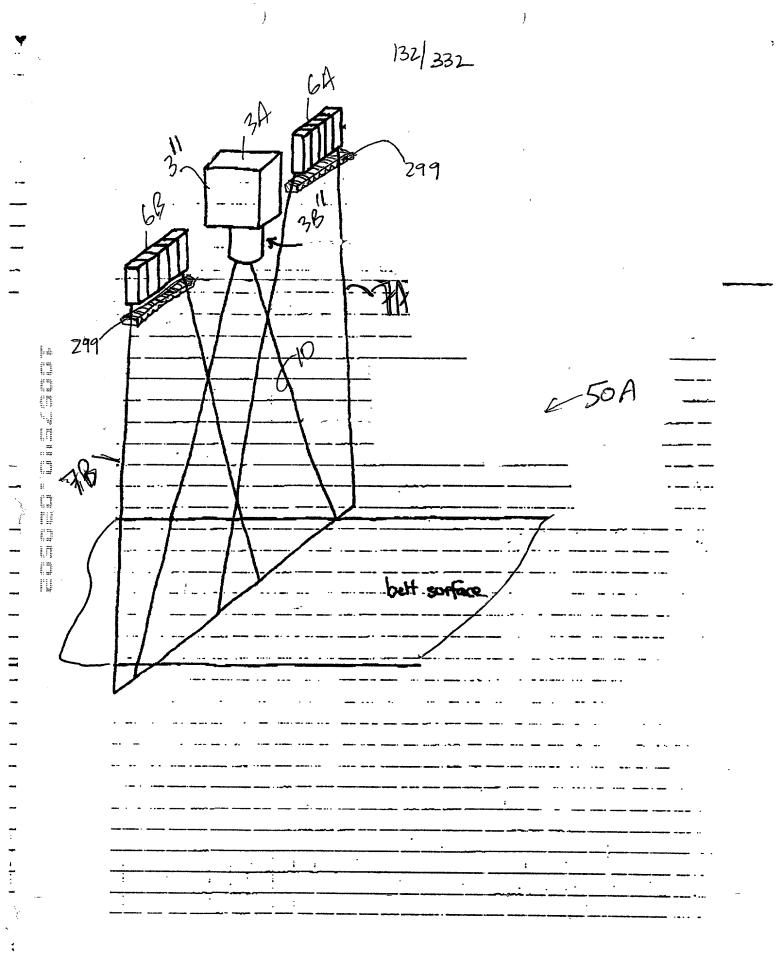
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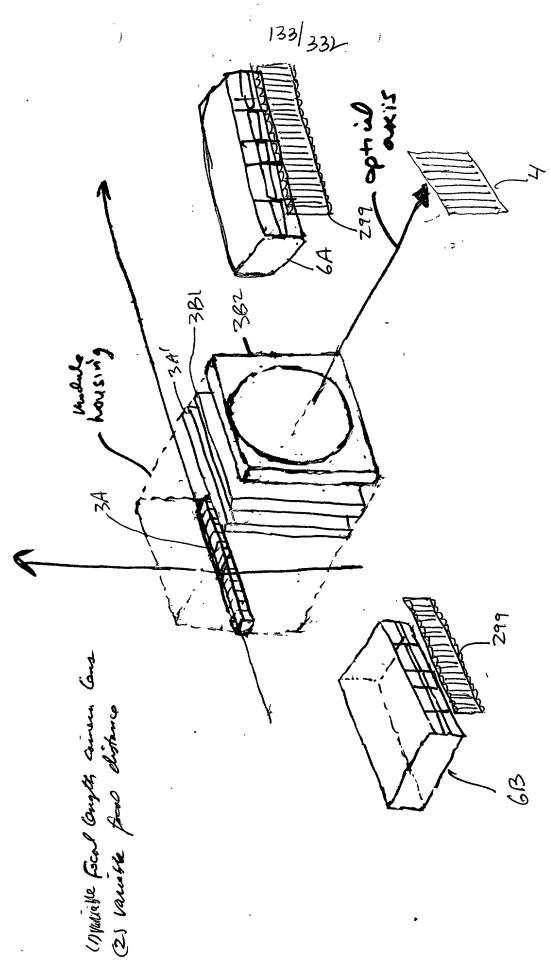
F19.2I6

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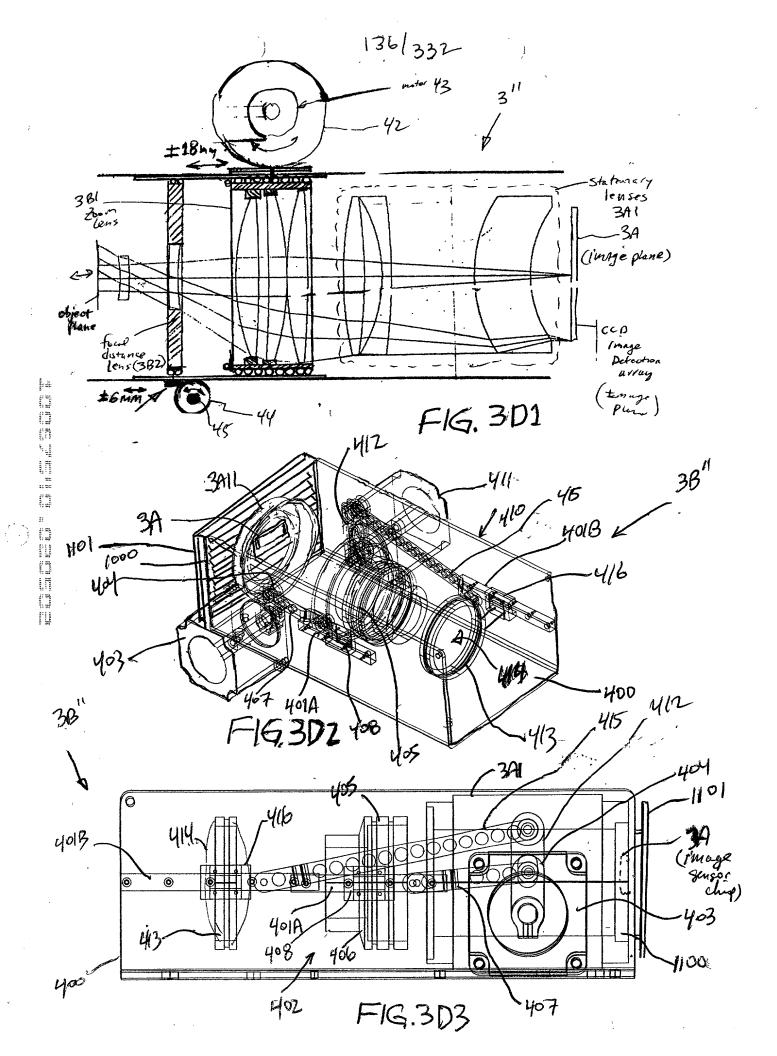
F16,3B1

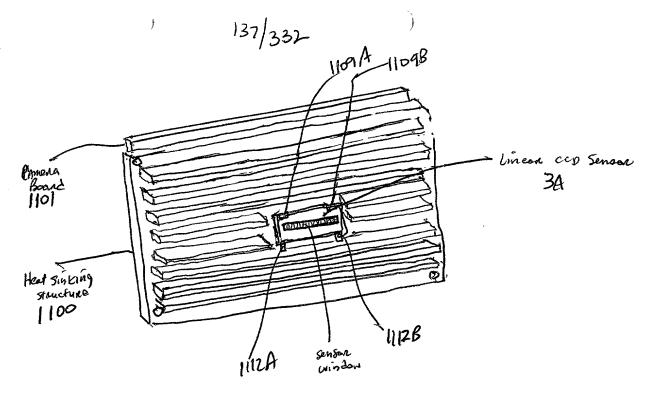


F16, 382

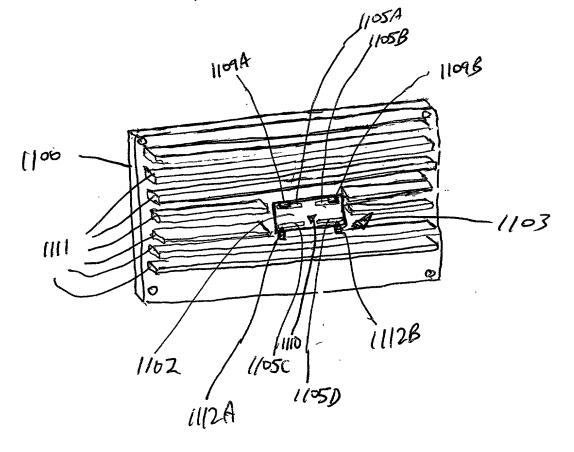
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F/G. 3CZ

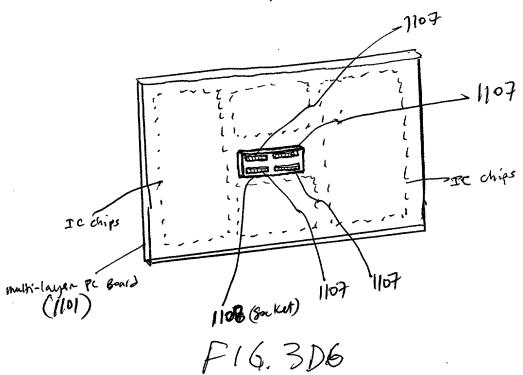


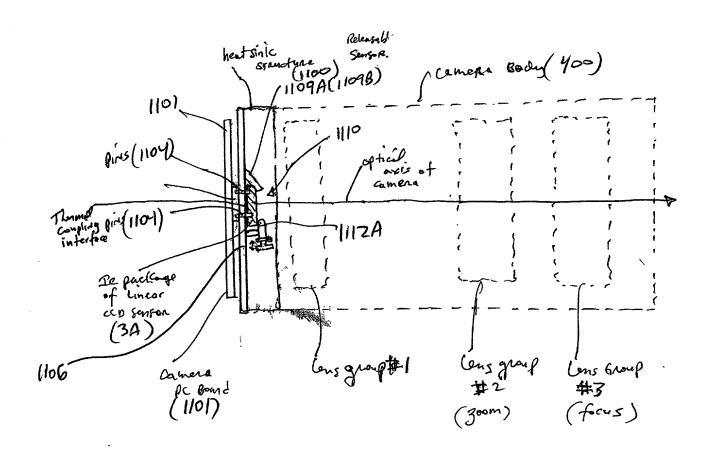


P16.304



F16.3D5





F14.307

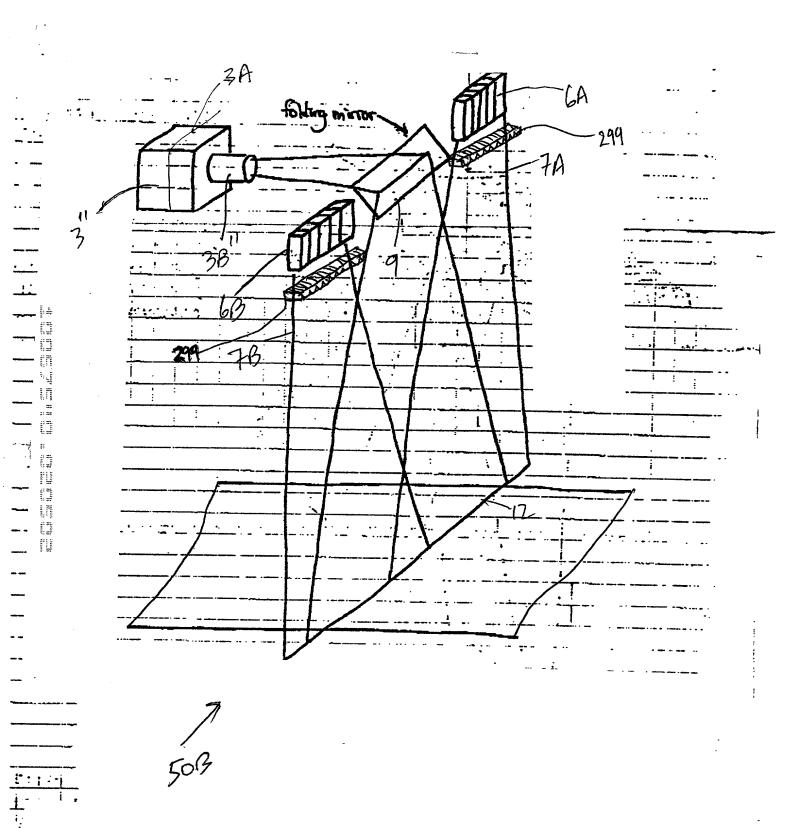
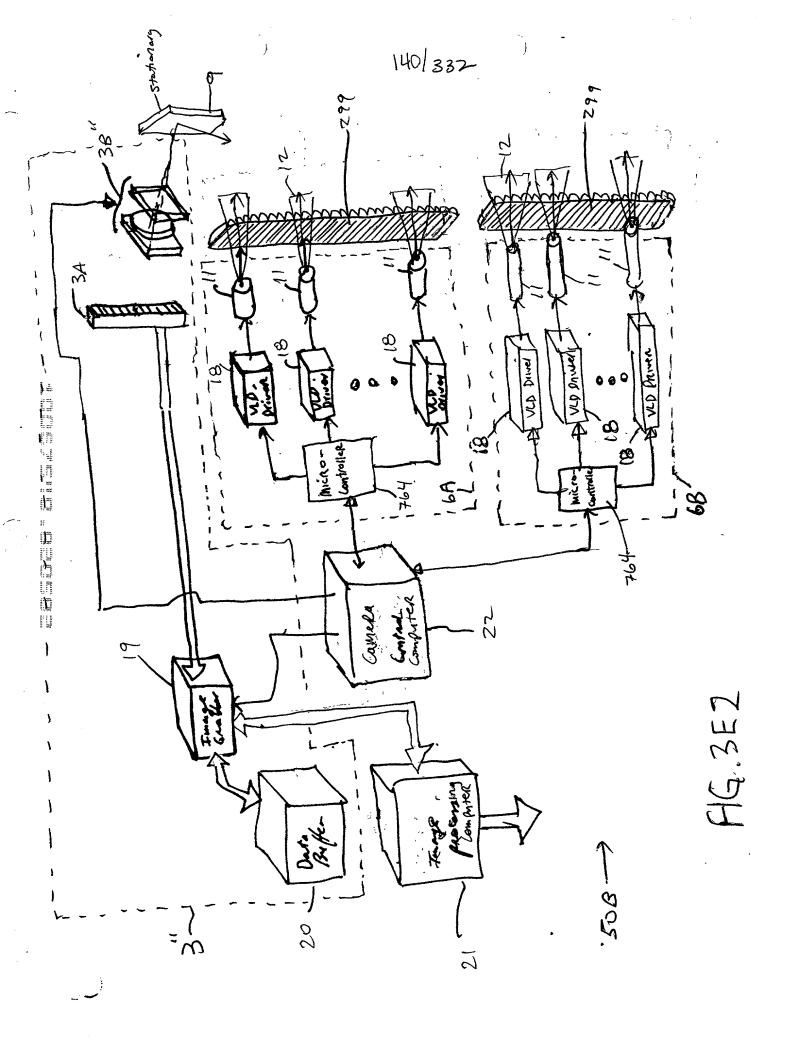


FIG. 3EI

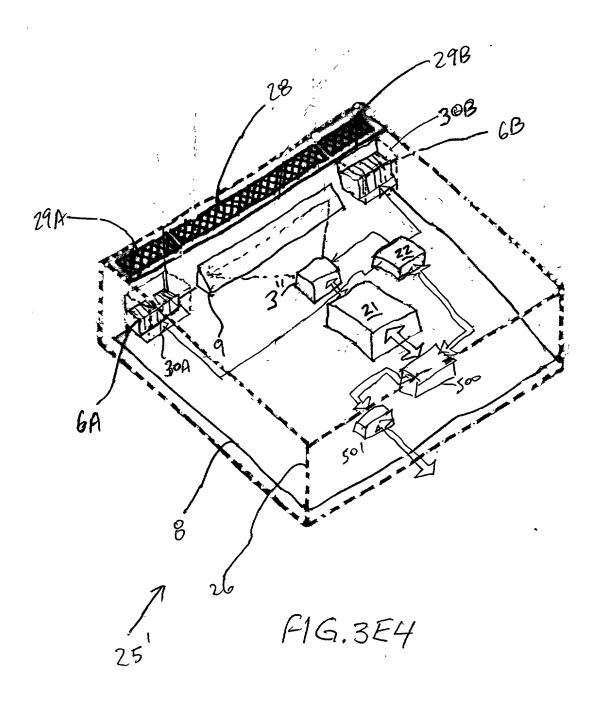


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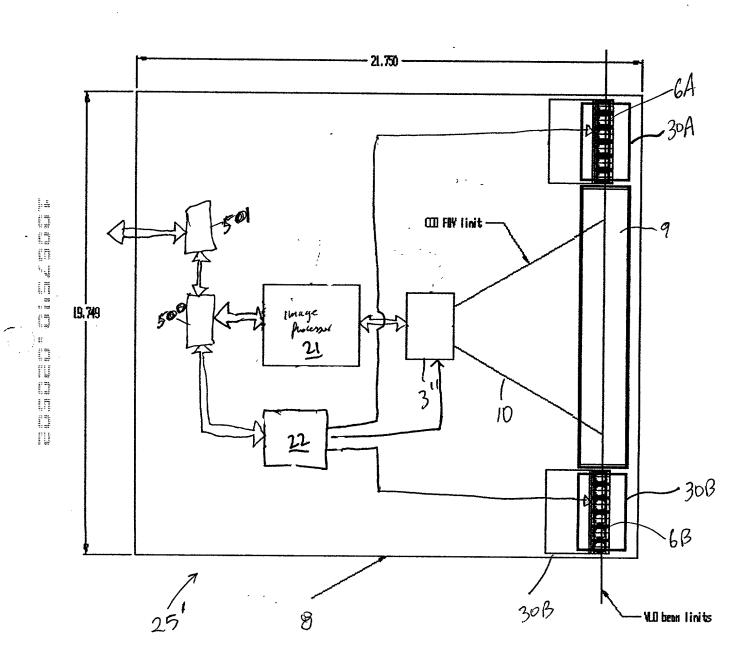
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382 361

F16. 3E3

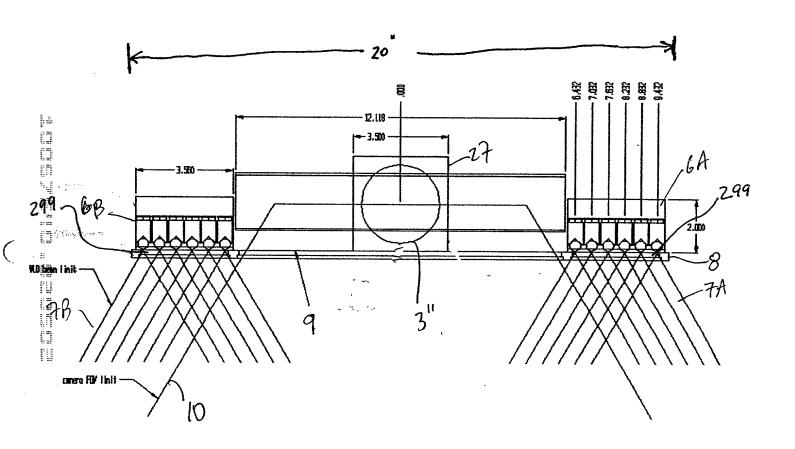
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F16. 3E5



F16. 356

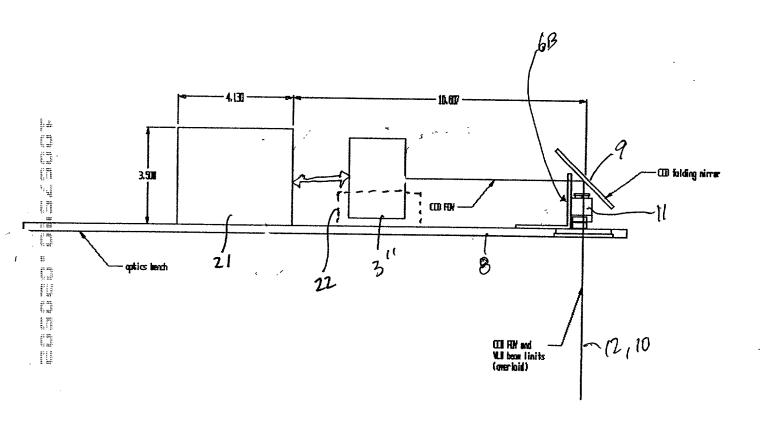
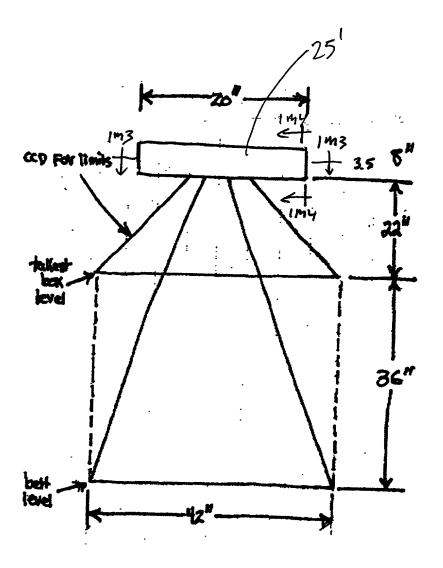


FIG. 3E7

## \* variable For



F16.3E8

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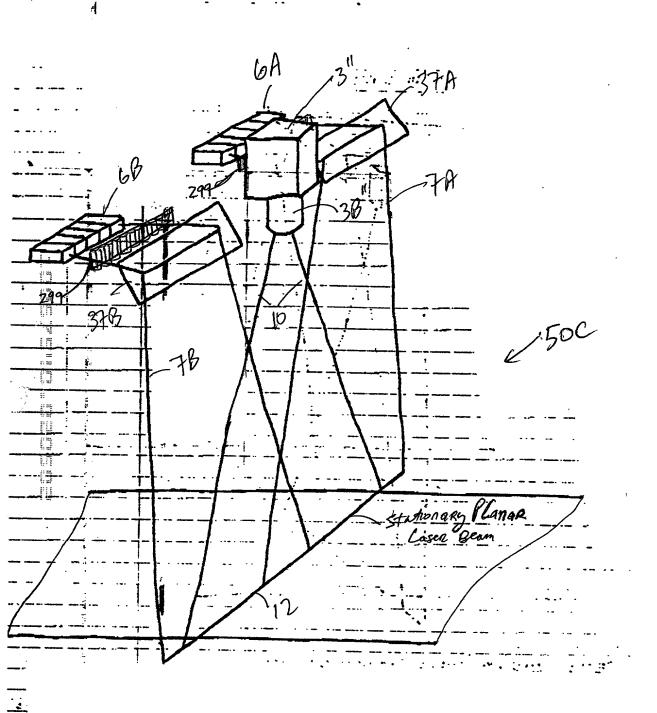
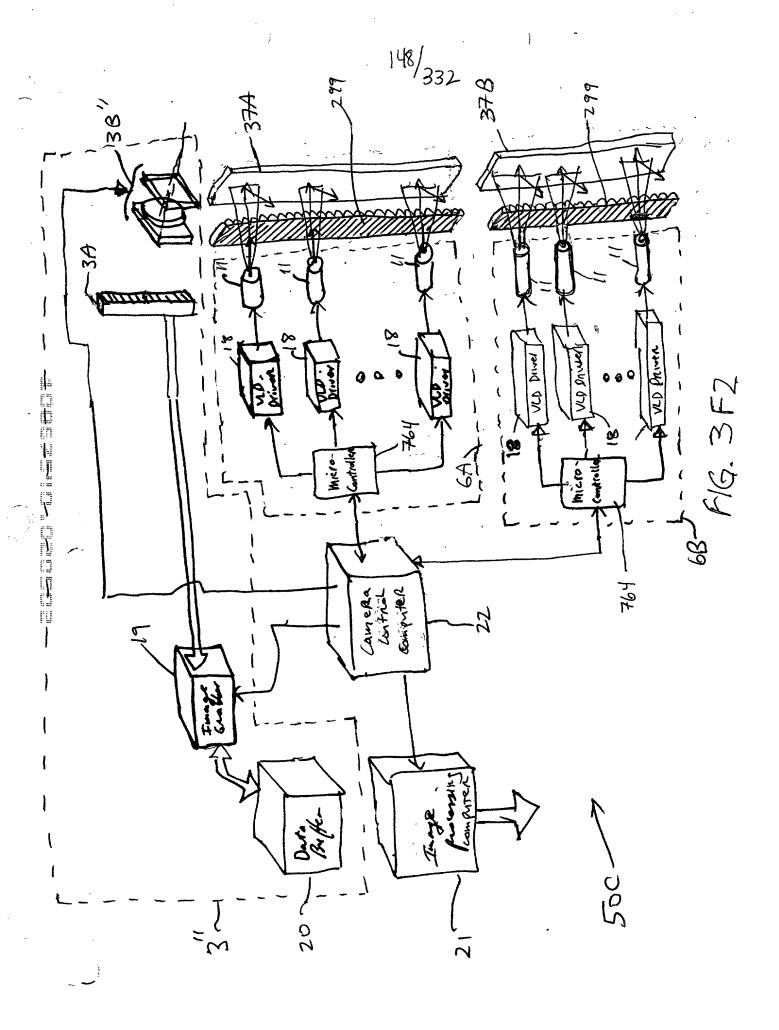
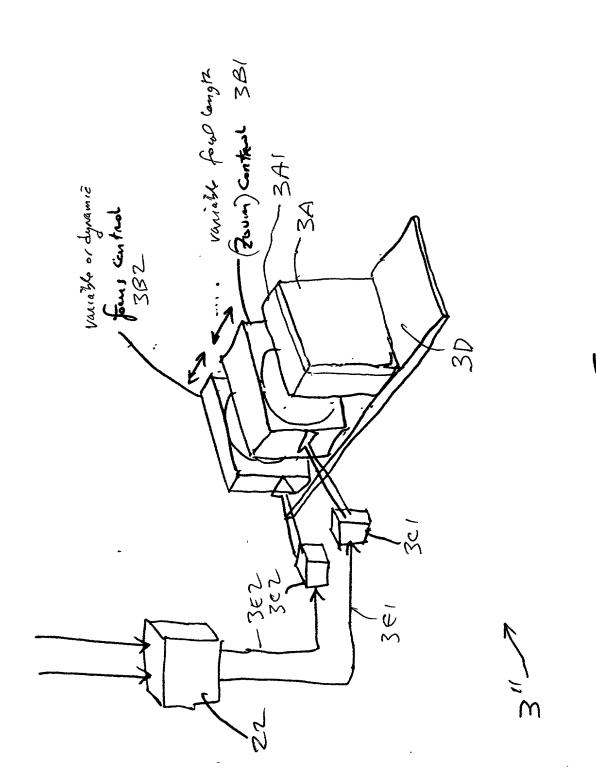
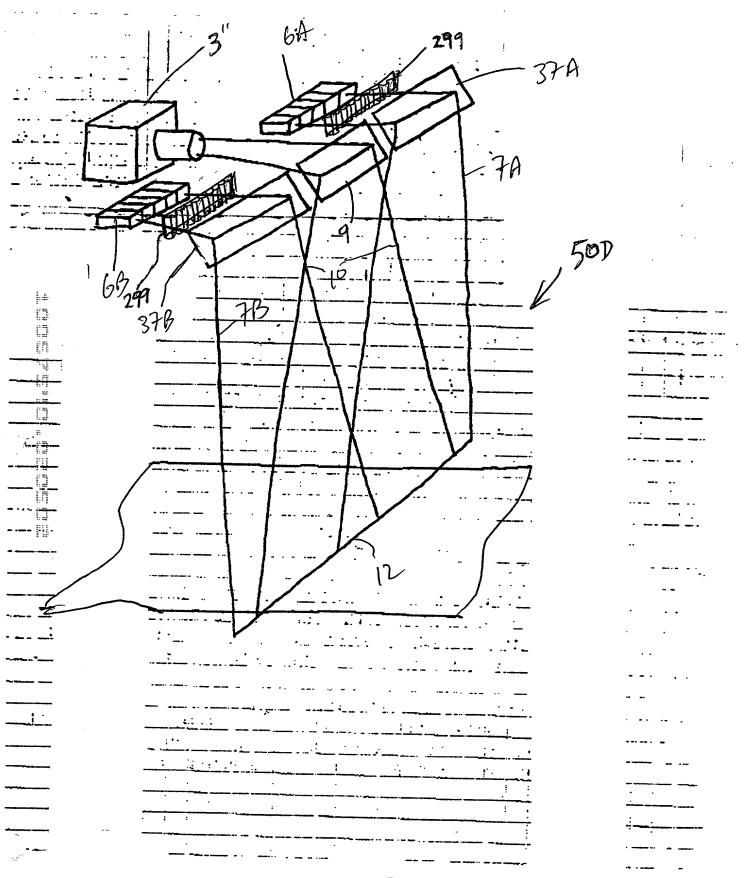


FIG. 3F1

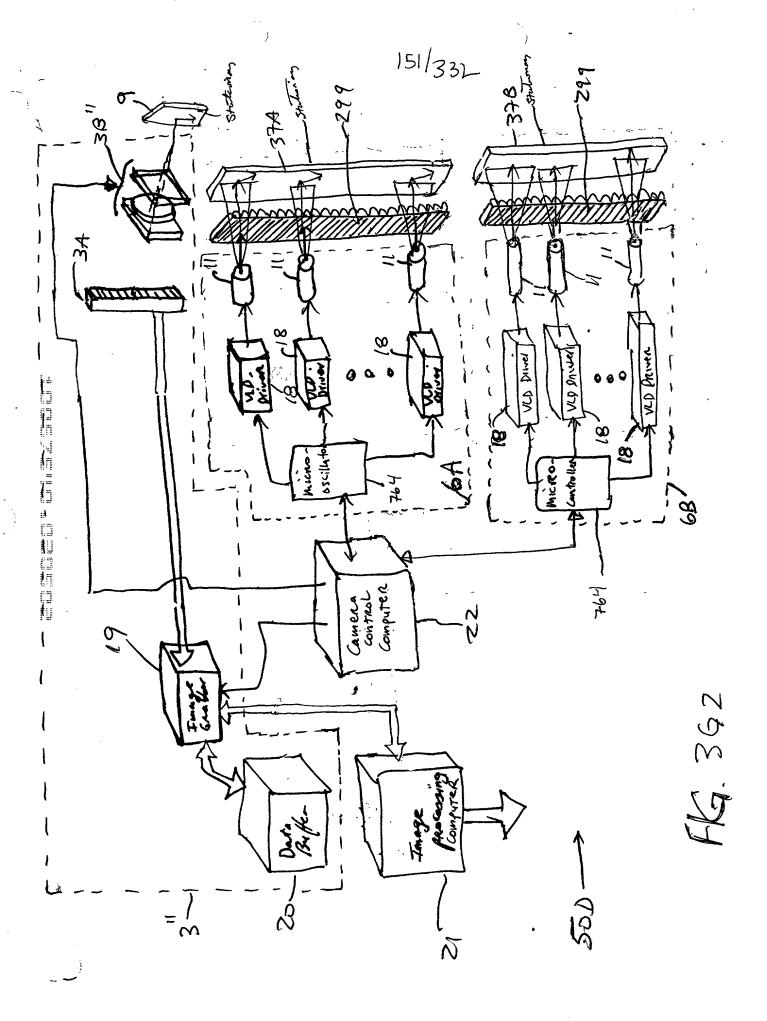




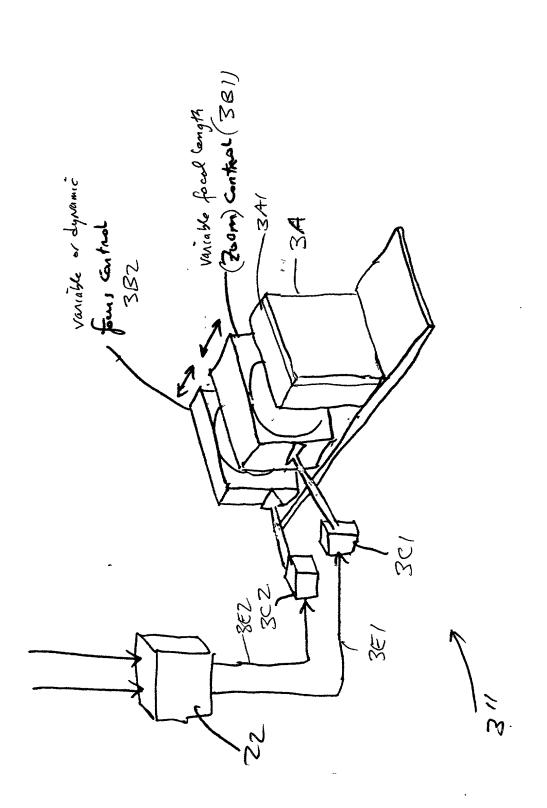
F/G. 3F3



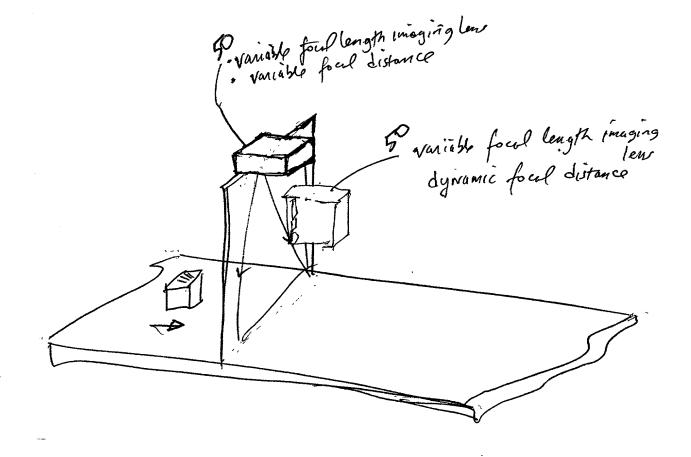
F16, 361



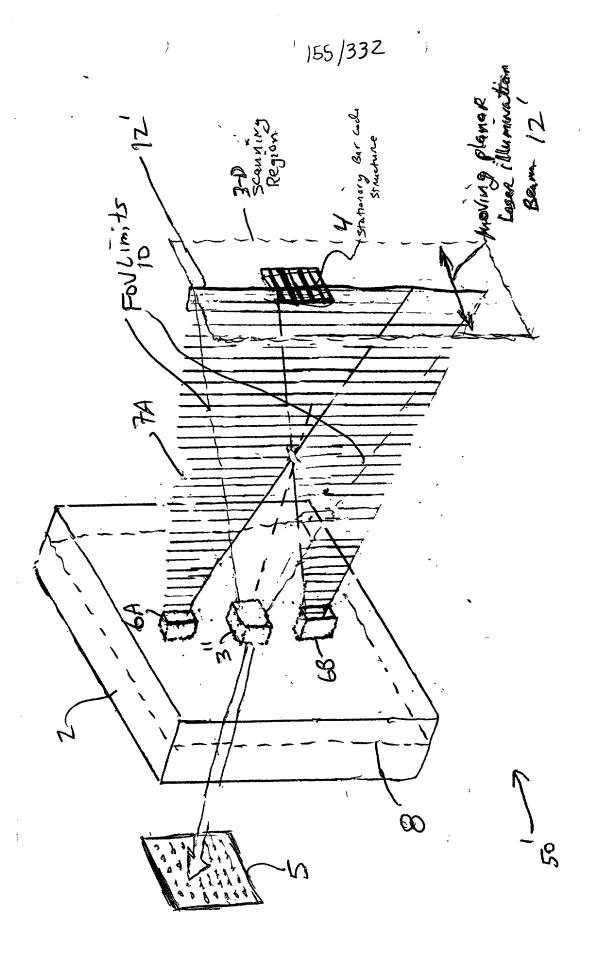




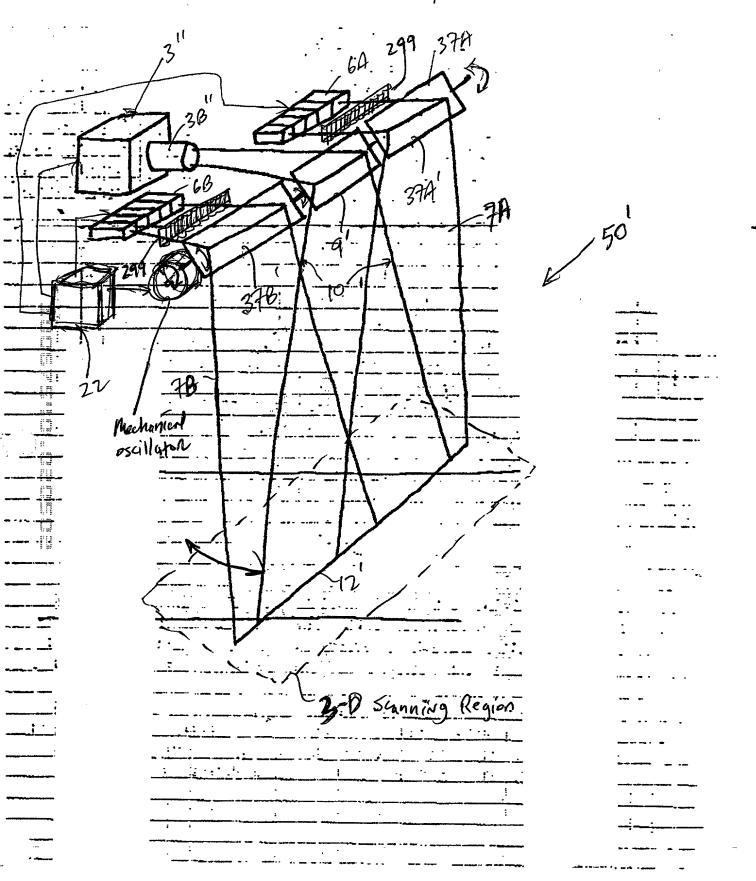
F1G. 363



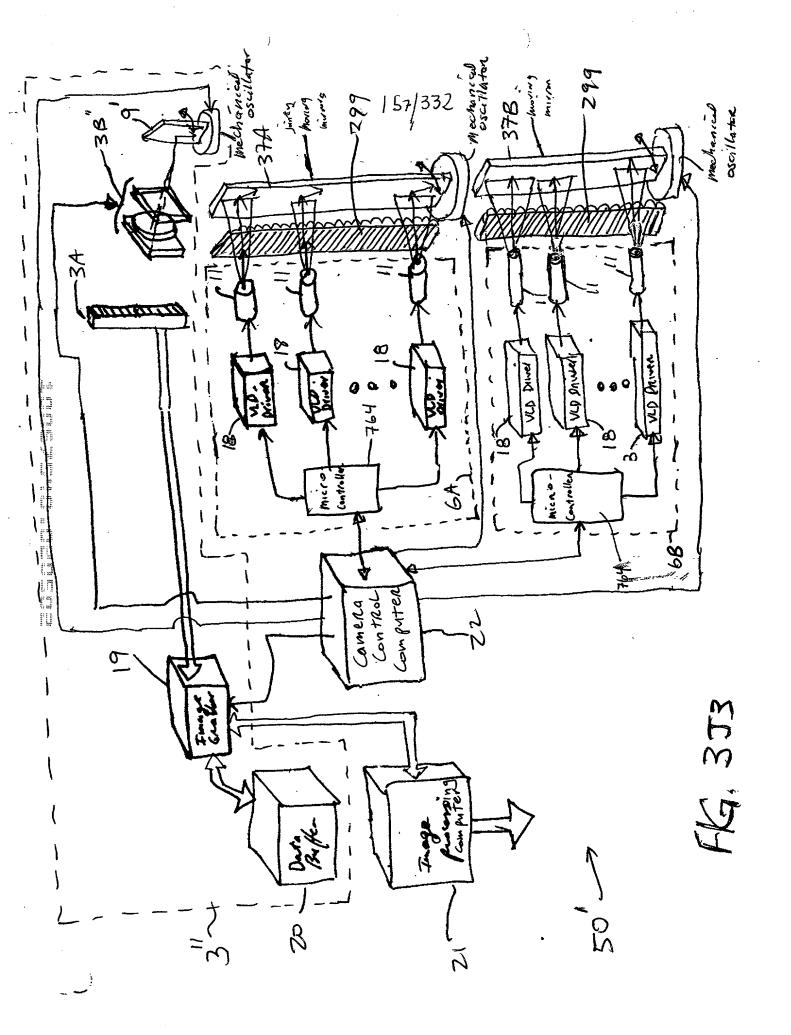
F1G. 3H

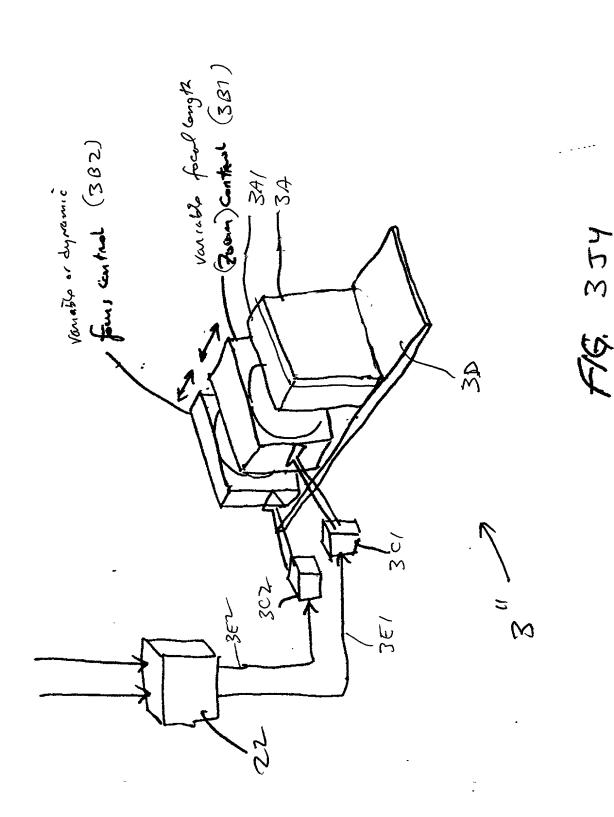


F19,371



F1G, 3JZ





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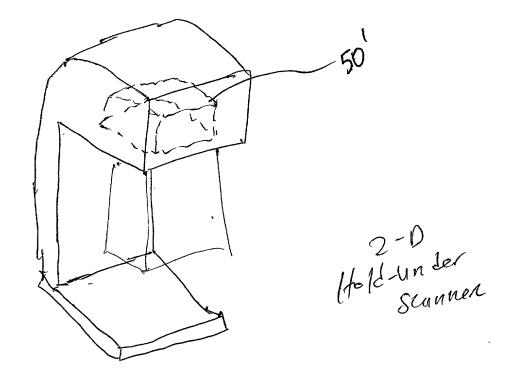
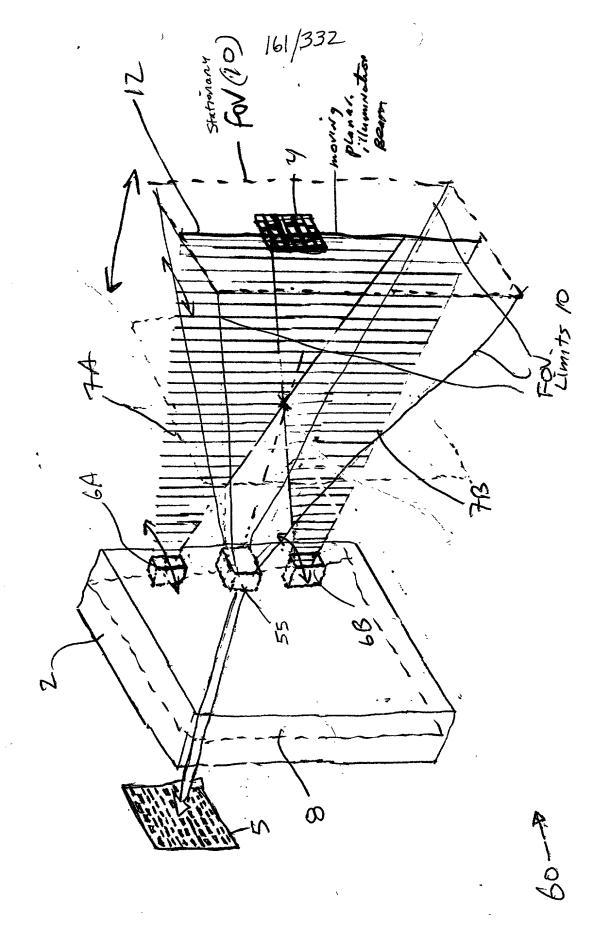
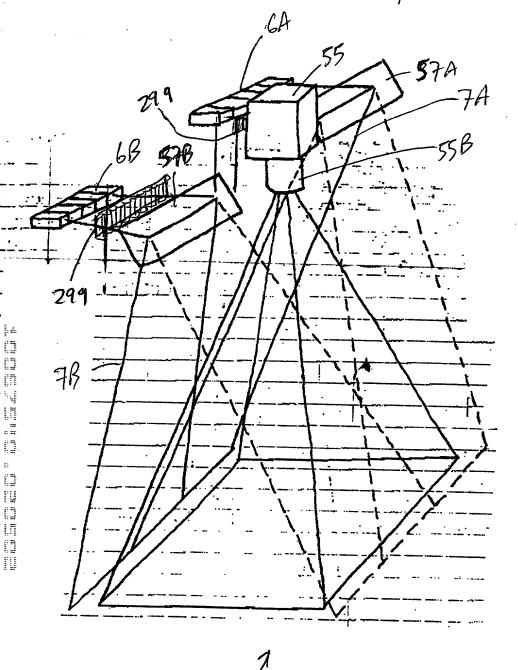


FIG-3J6

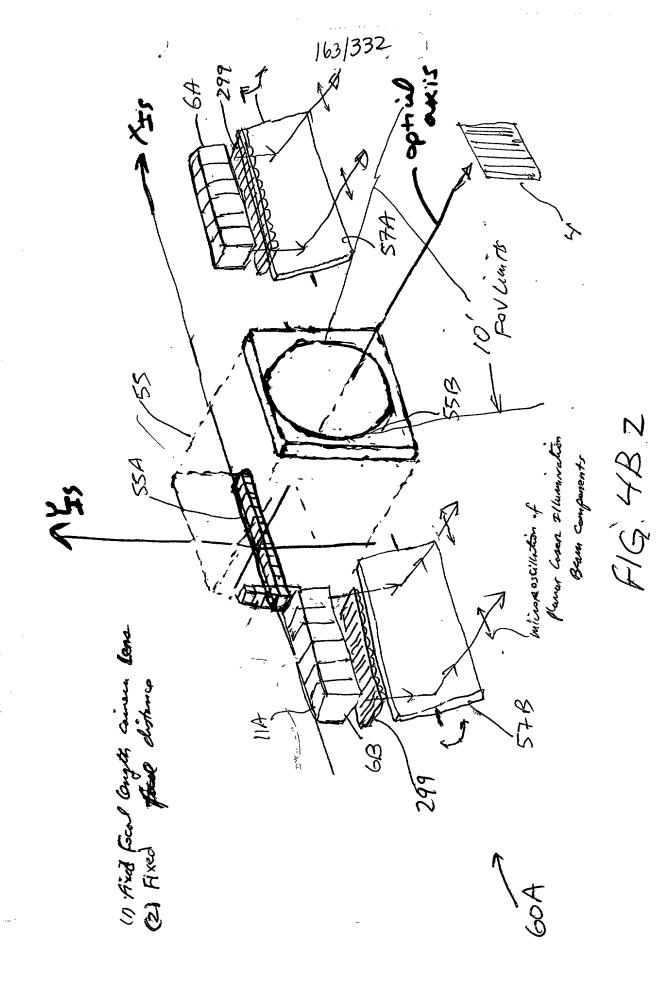


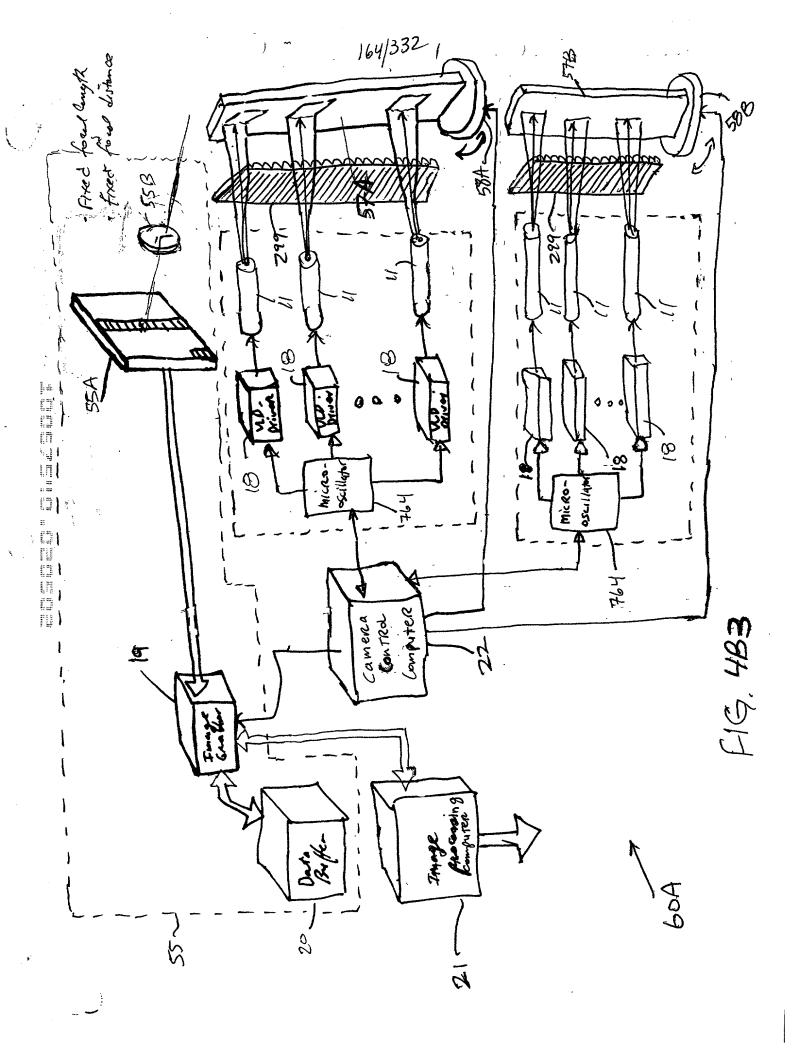
F1G 44



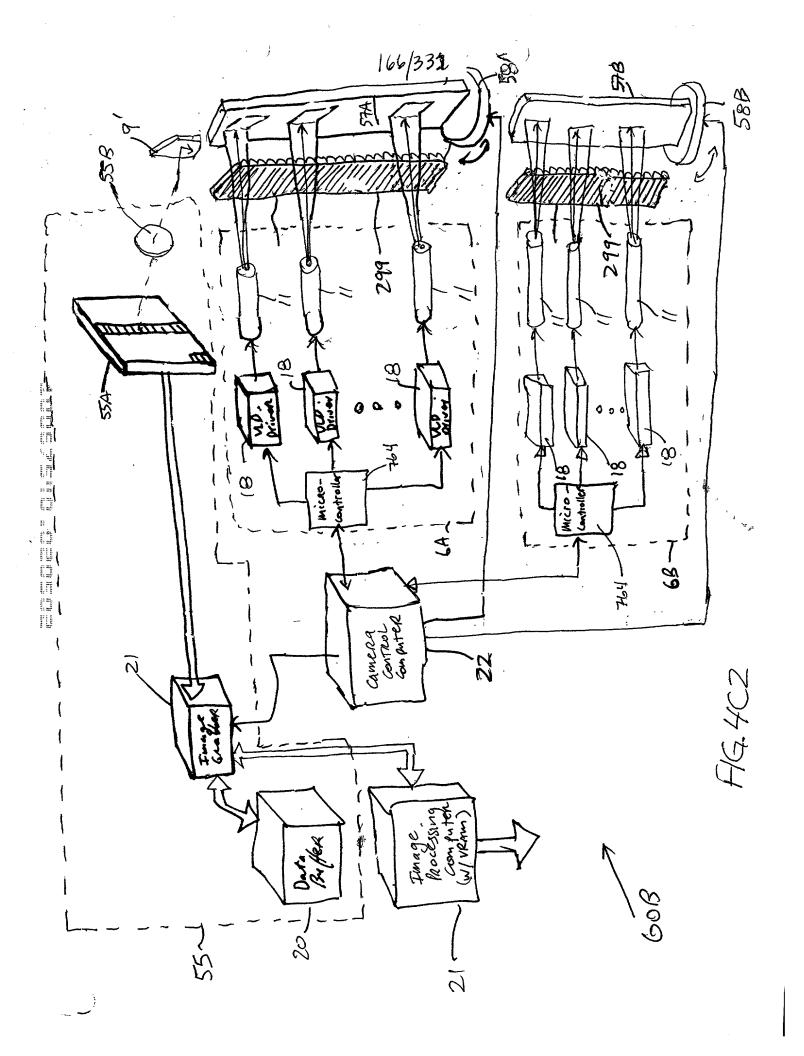
60A

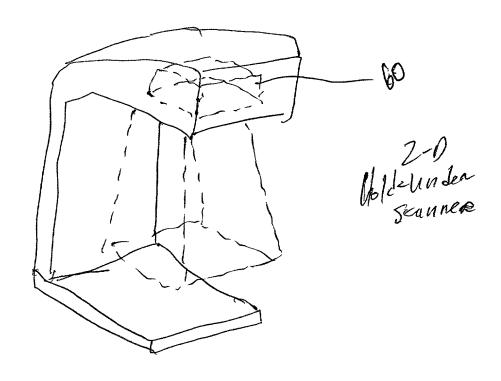
F16.4B1





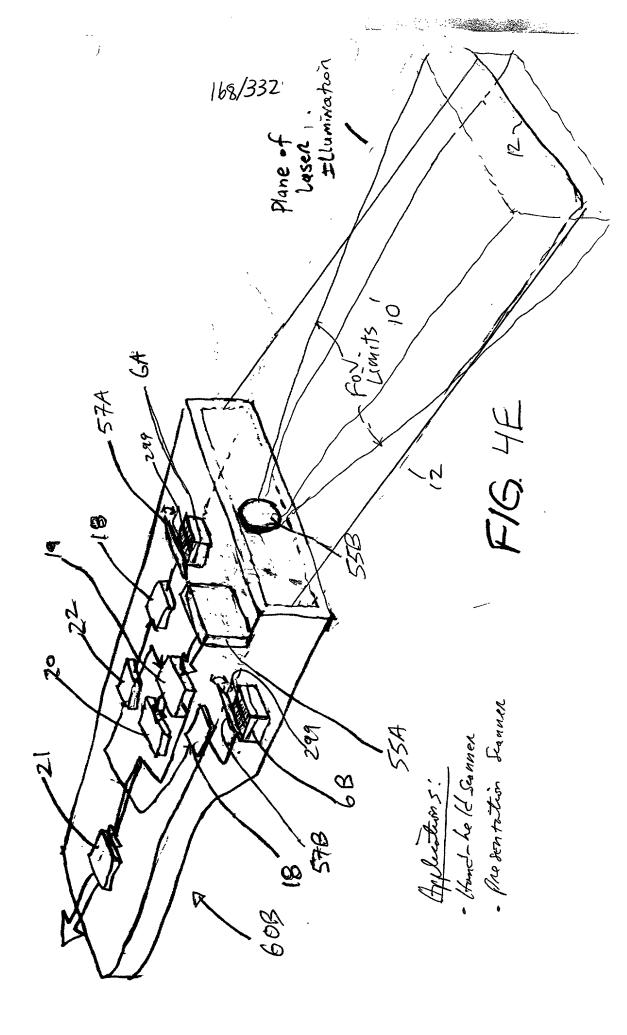
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299 7B			
Mechanical_			
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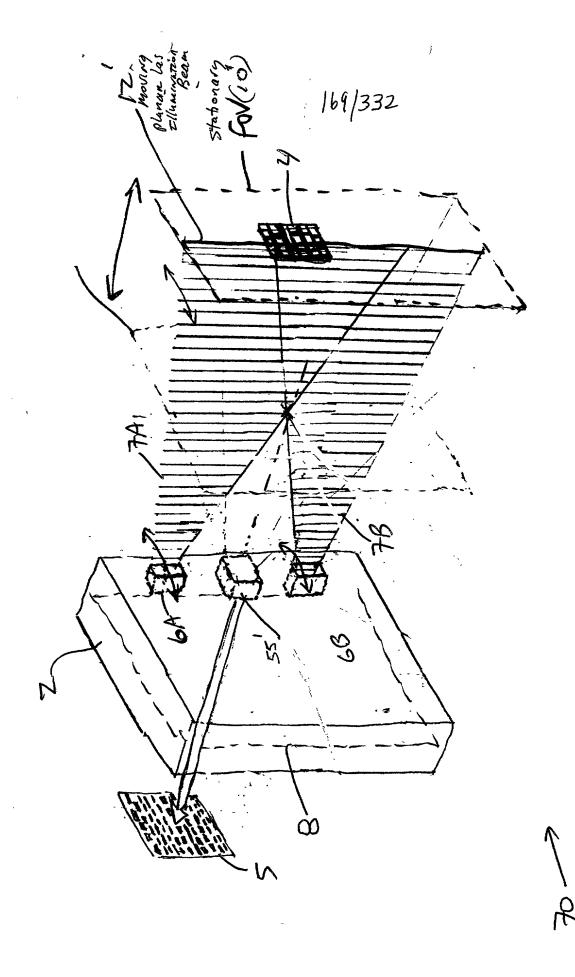




F1G.4D

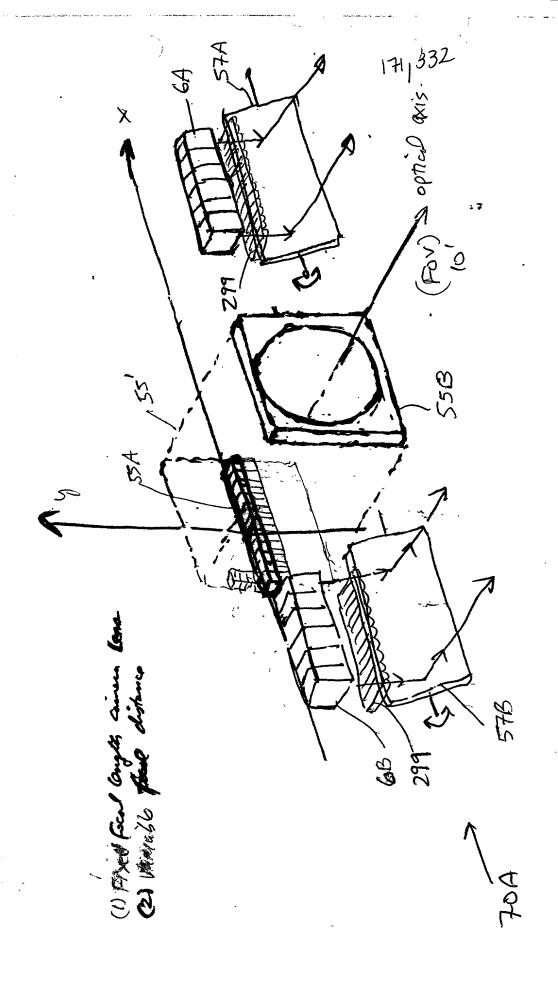
9



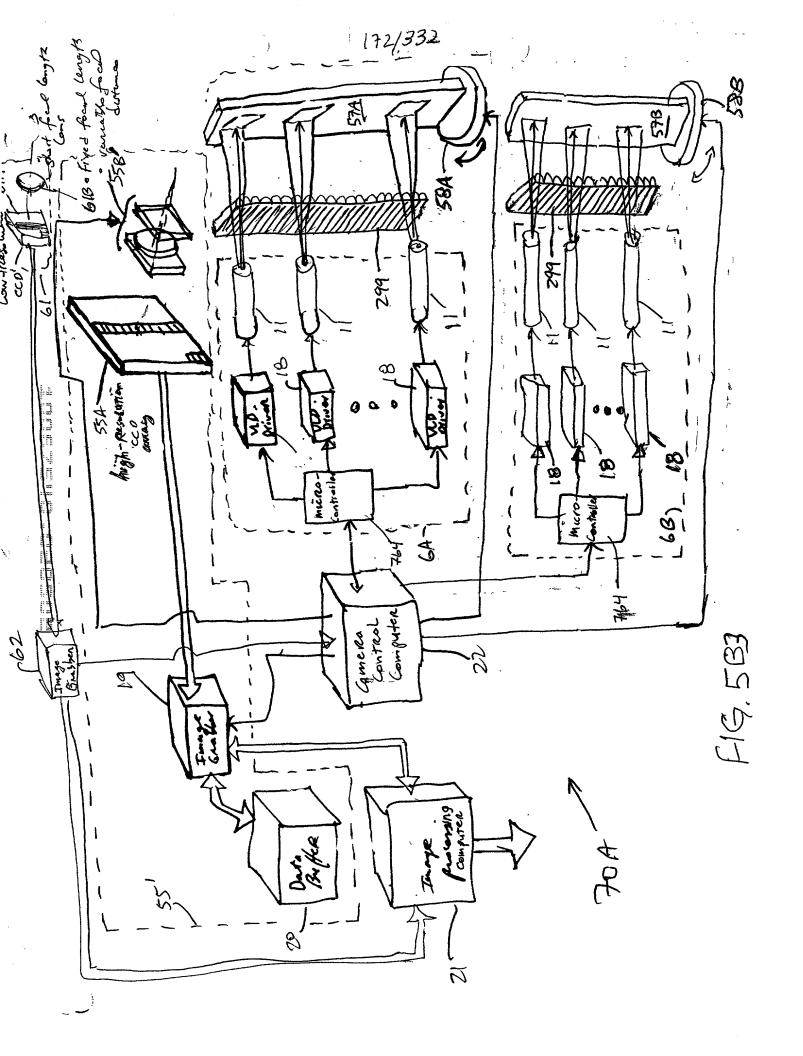


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F1G, 581

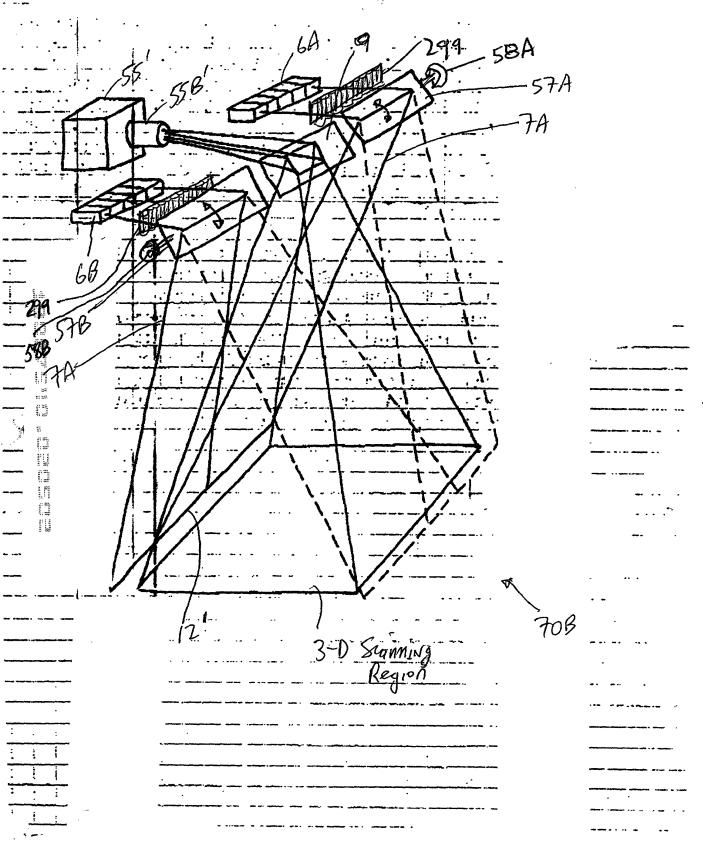


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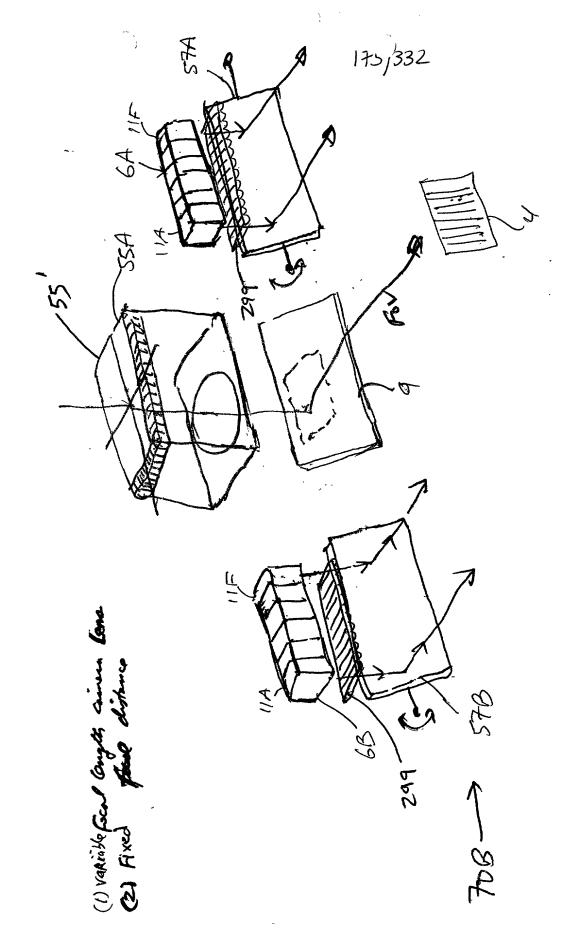
and of the control of

F1G. 584

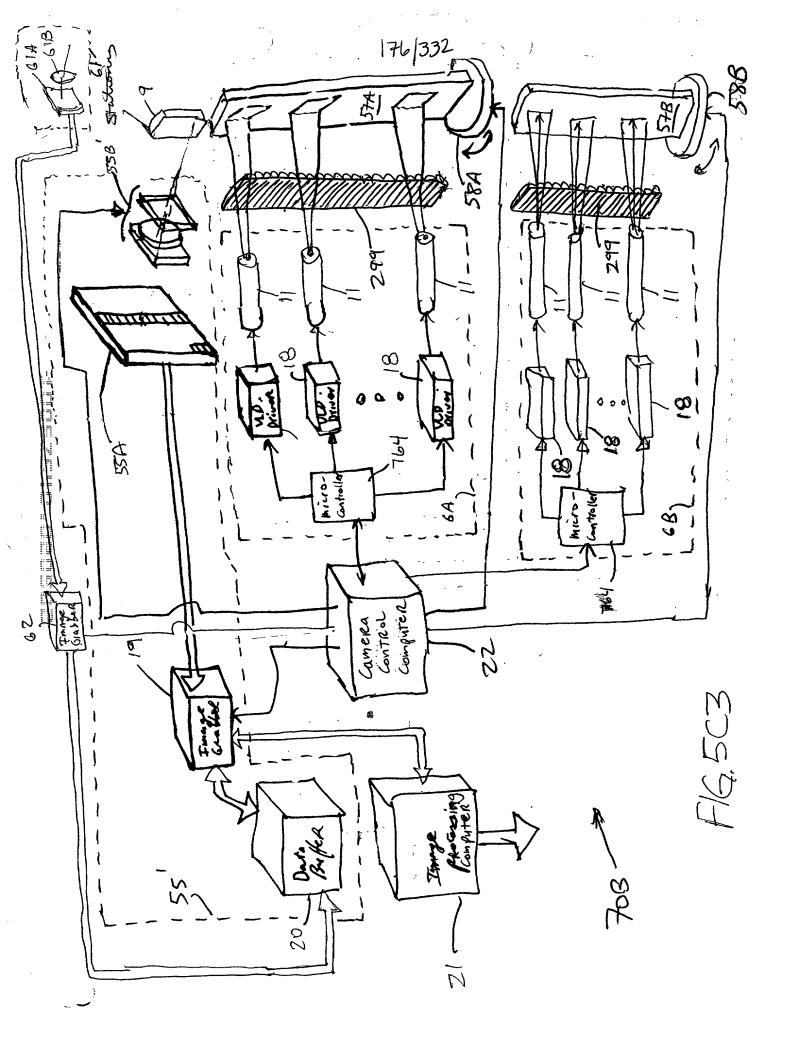
174/334



: FIG.5CI



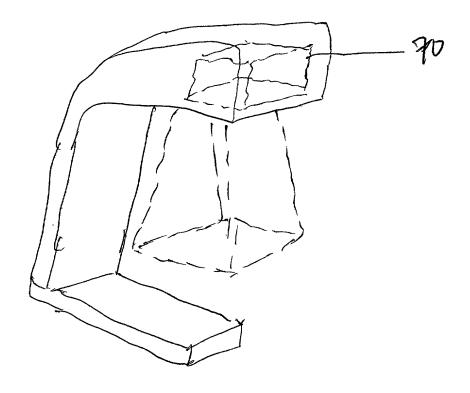
F1G, 500



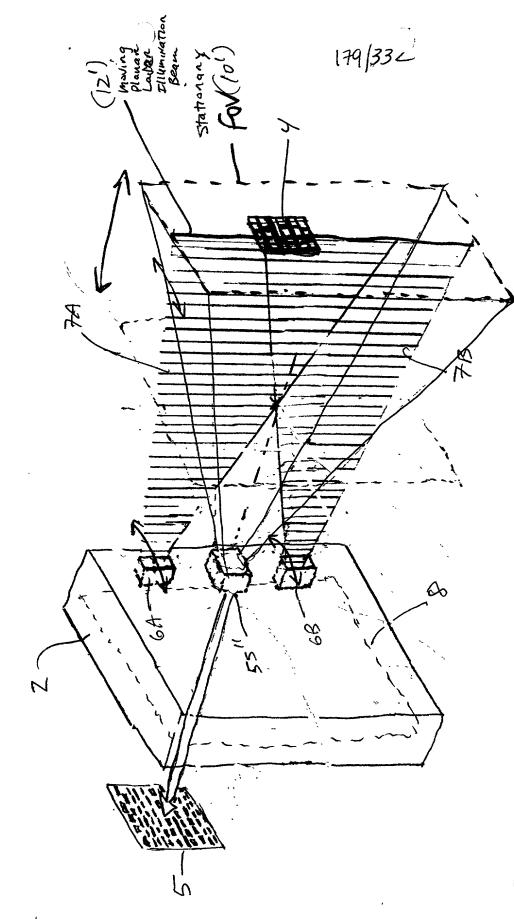
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F16. 5CY

250



F1G. 5D



F19.6A

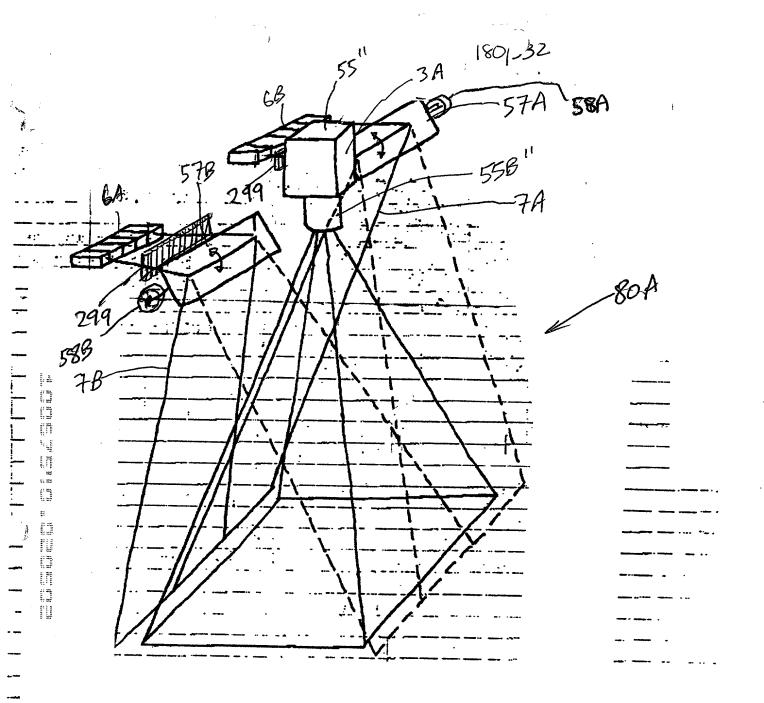
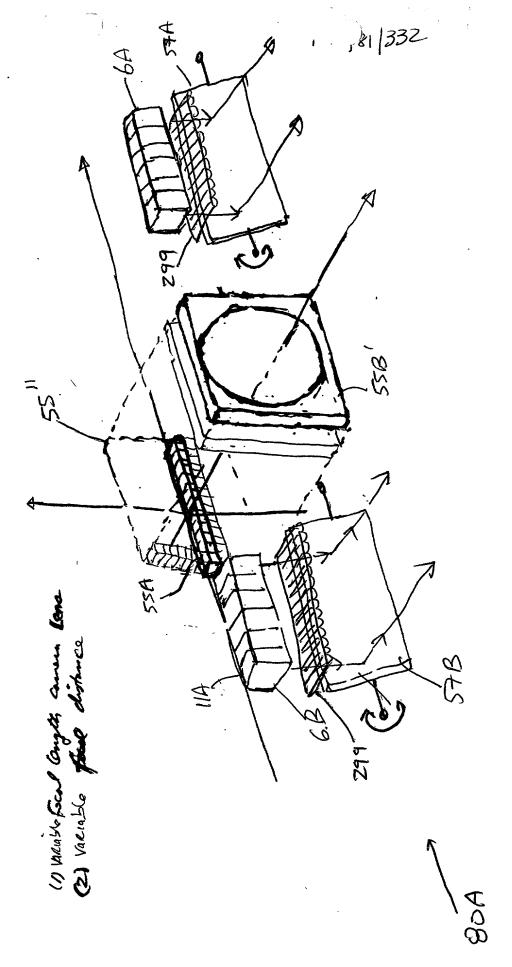
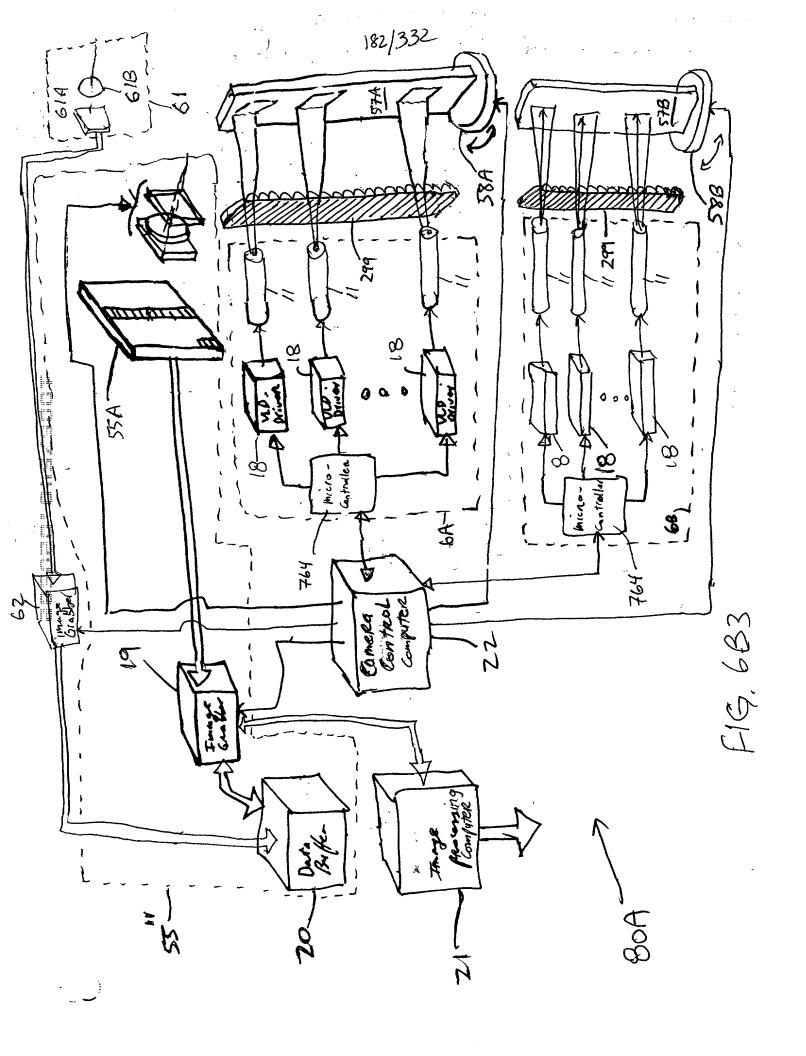
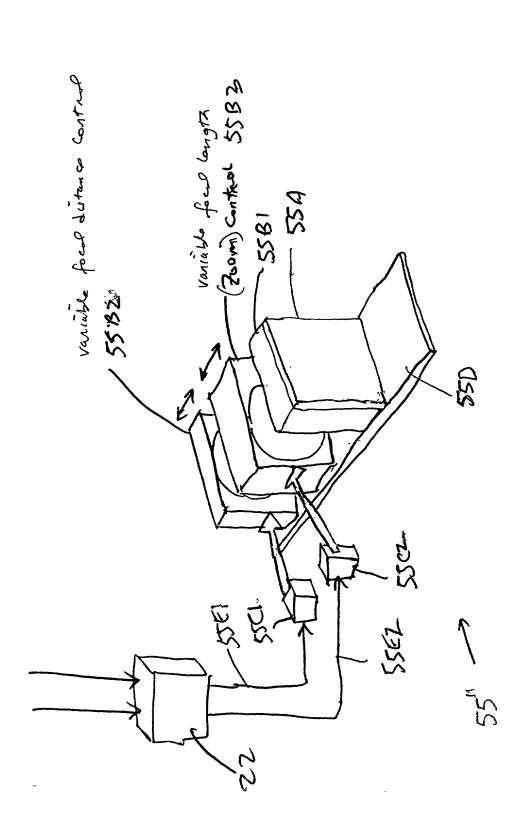


FIG. 681

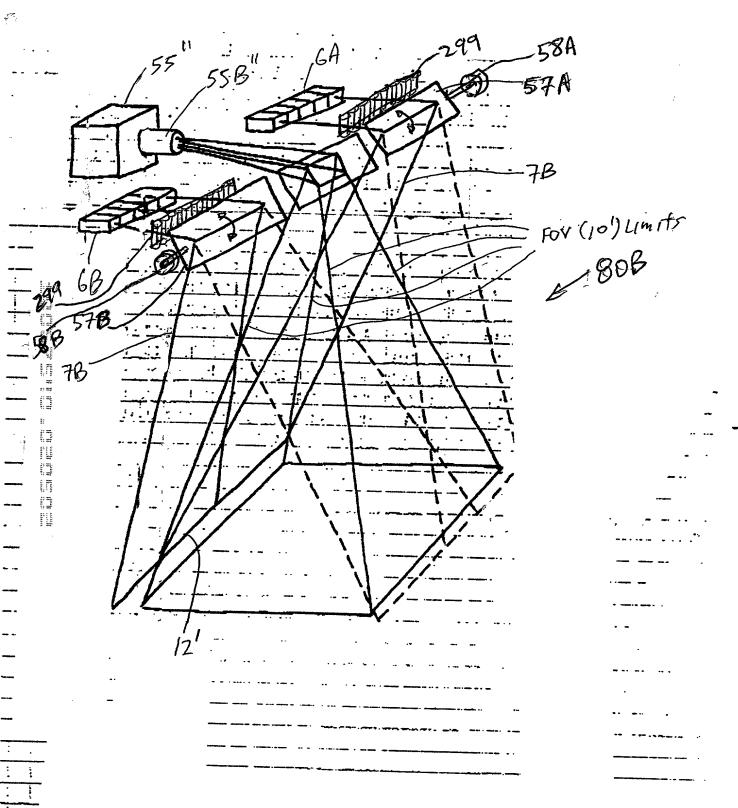


F1G, 6BZ

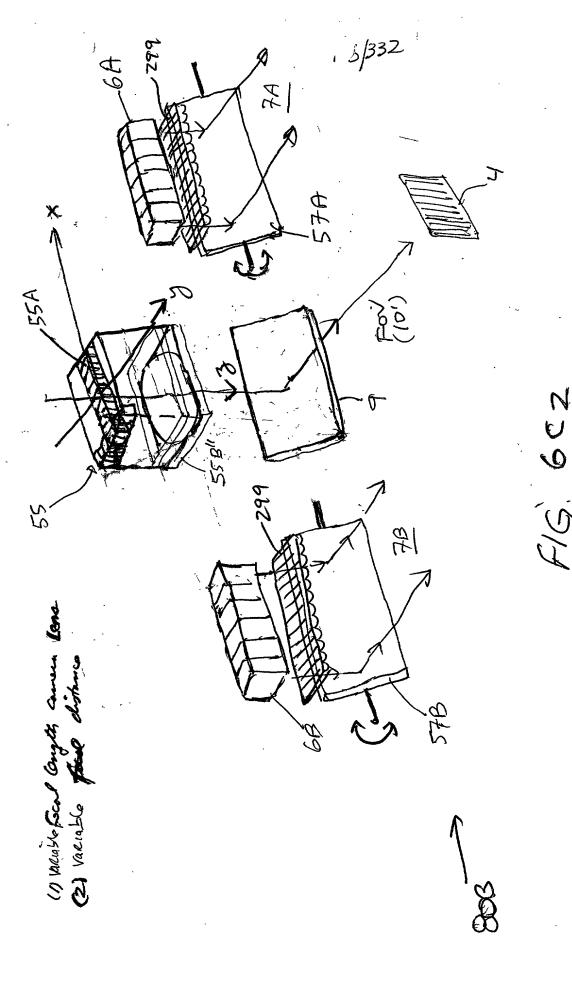




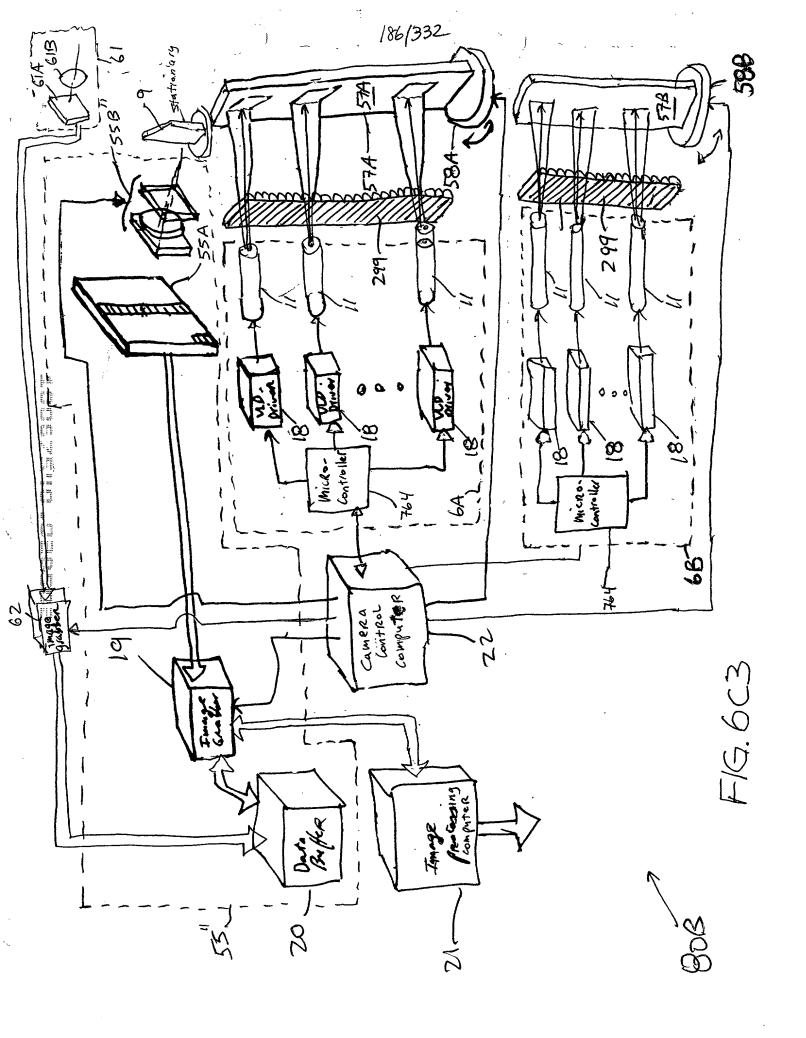
F1G. 684



F19.601



(

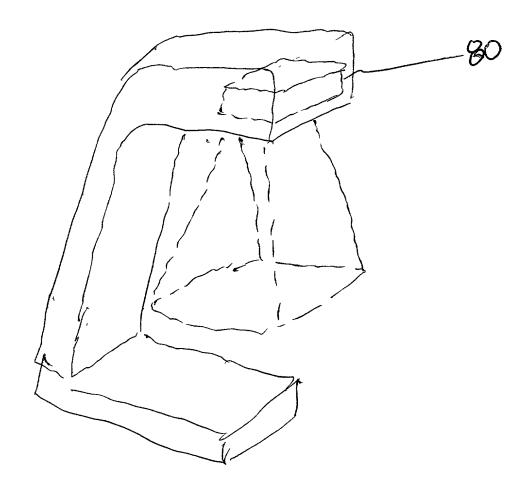


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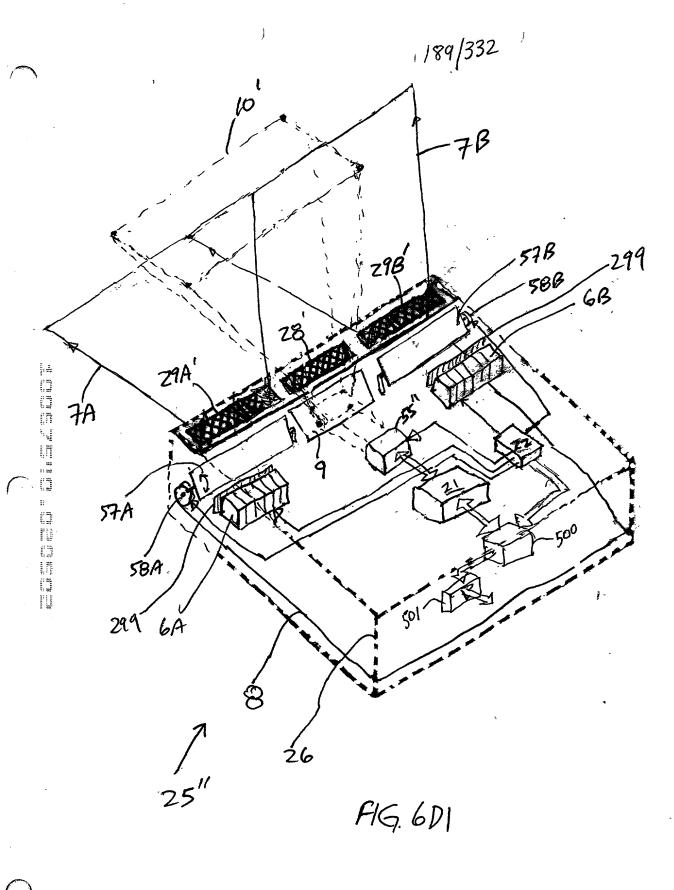
FIG. BCY

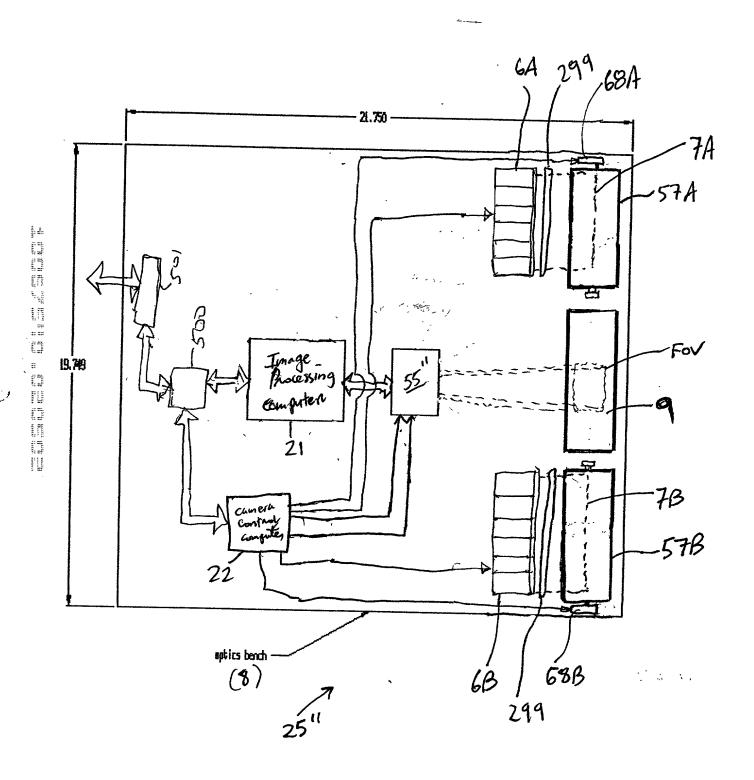
8

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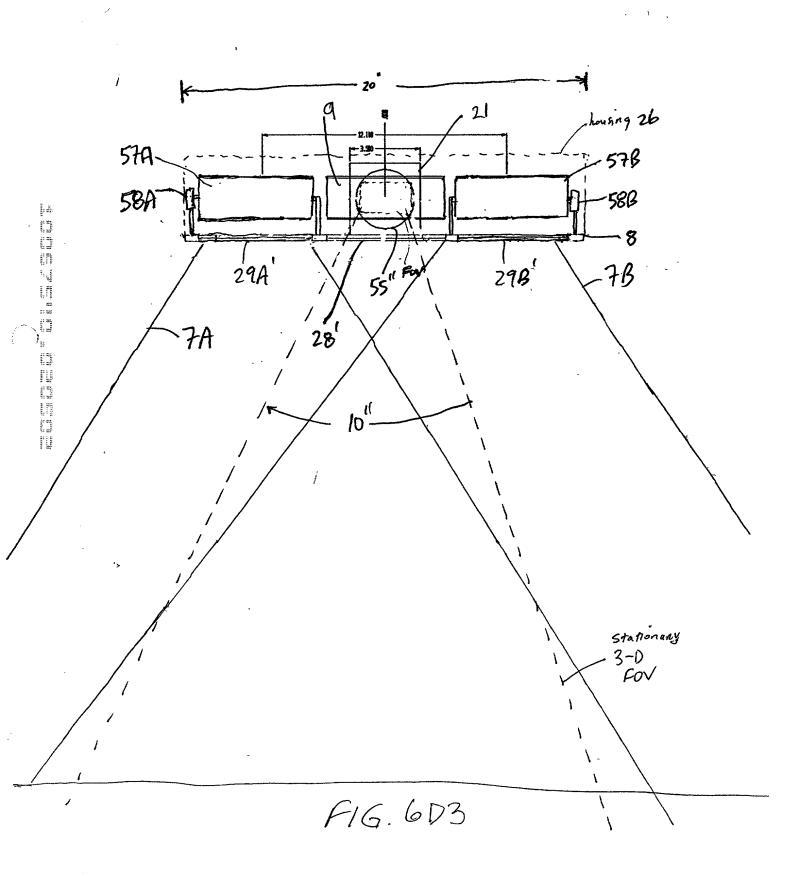


F16.6C5

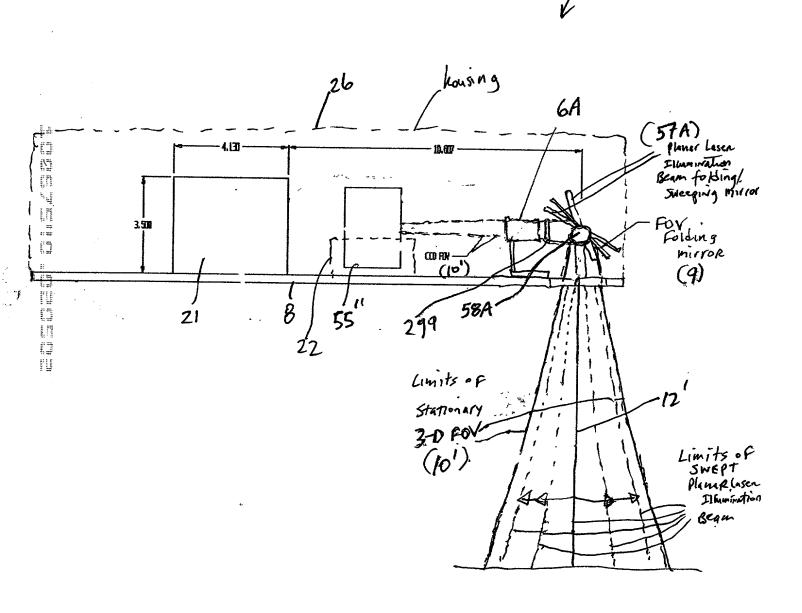




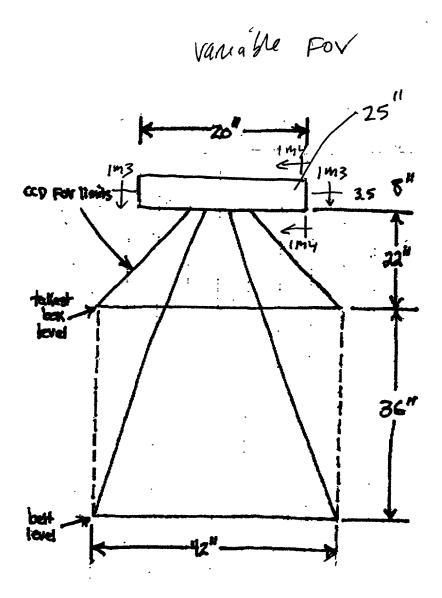
F1G.6DZ



25"



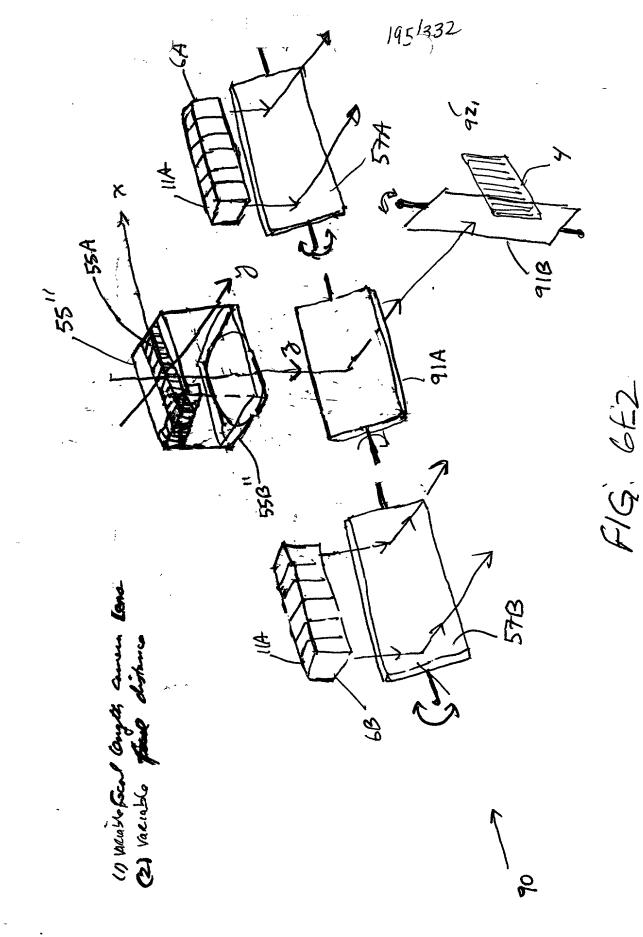
F16.6D4

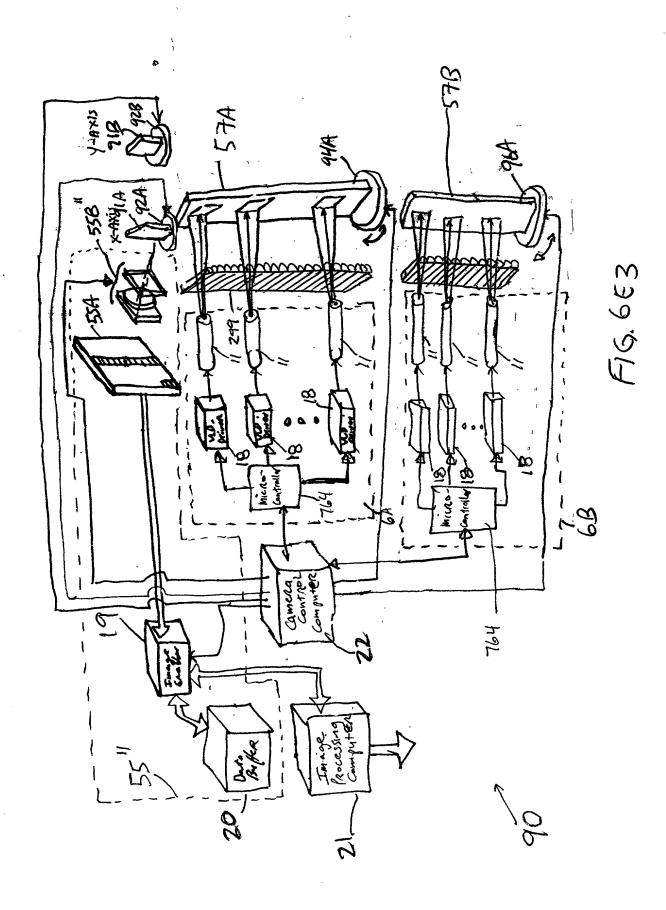


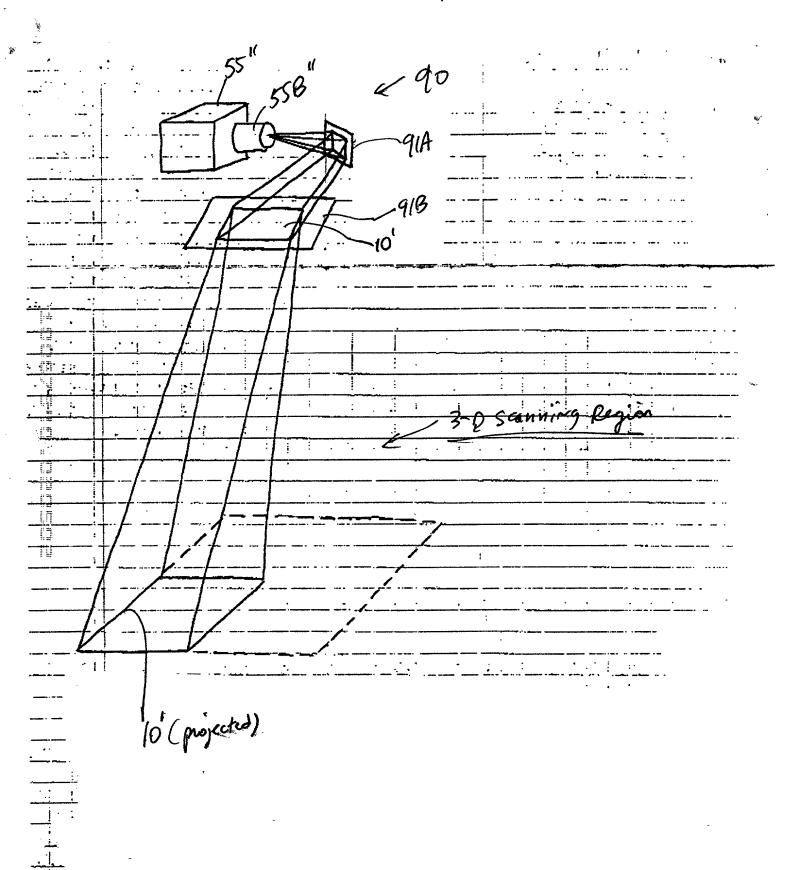
F1G.6D5

194/332 30 FOV 15 morable in 2-Jamensions

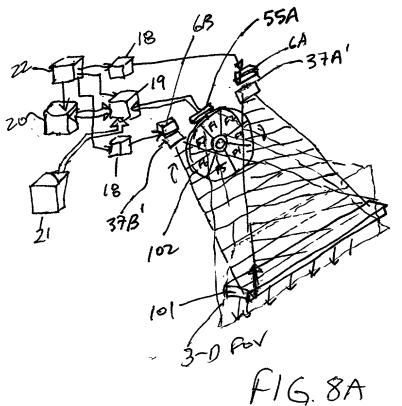
P16.6E1





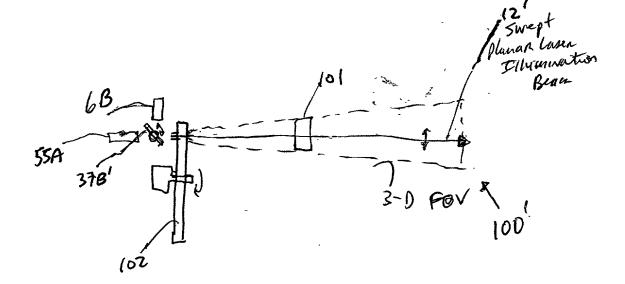


-- FIG. 6R4

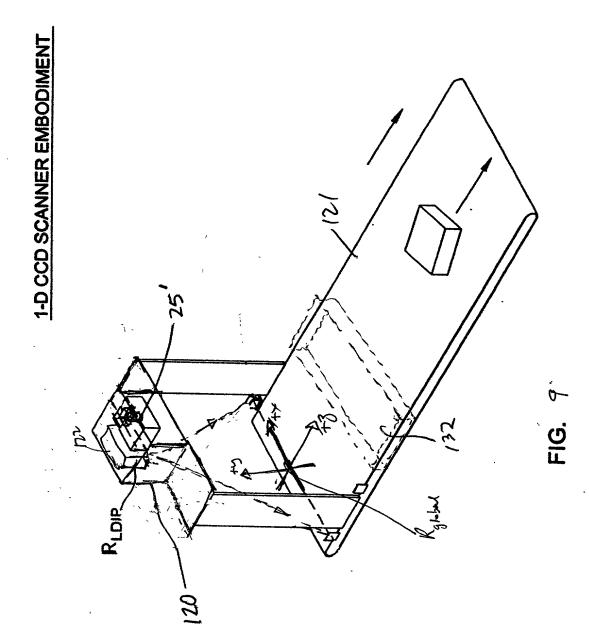


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F19.8B



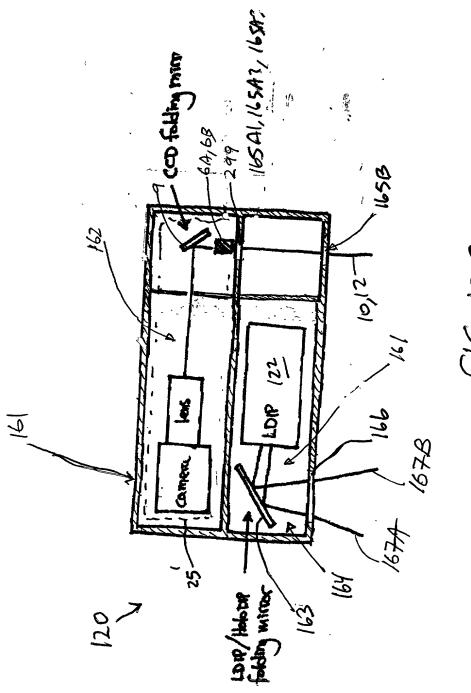
F/G. 11

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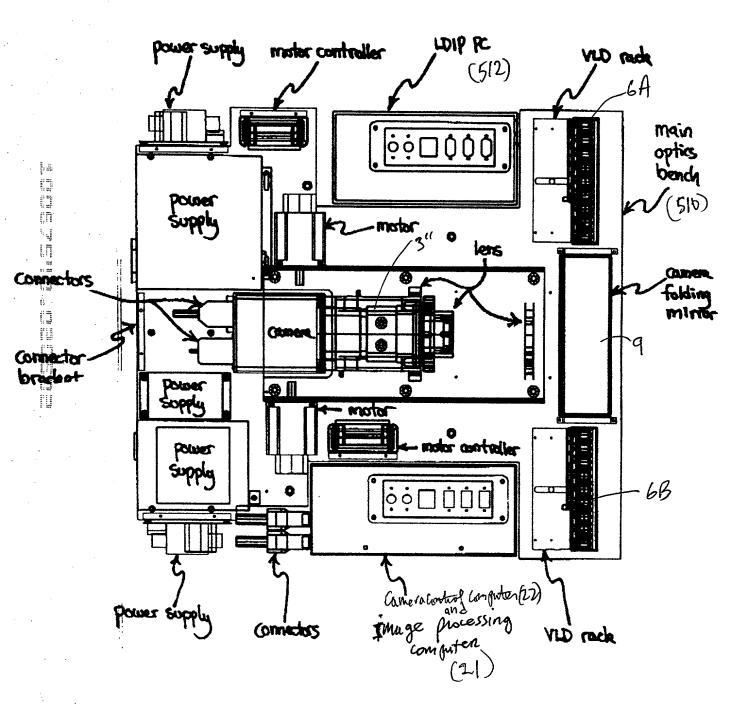
16513

203/33-

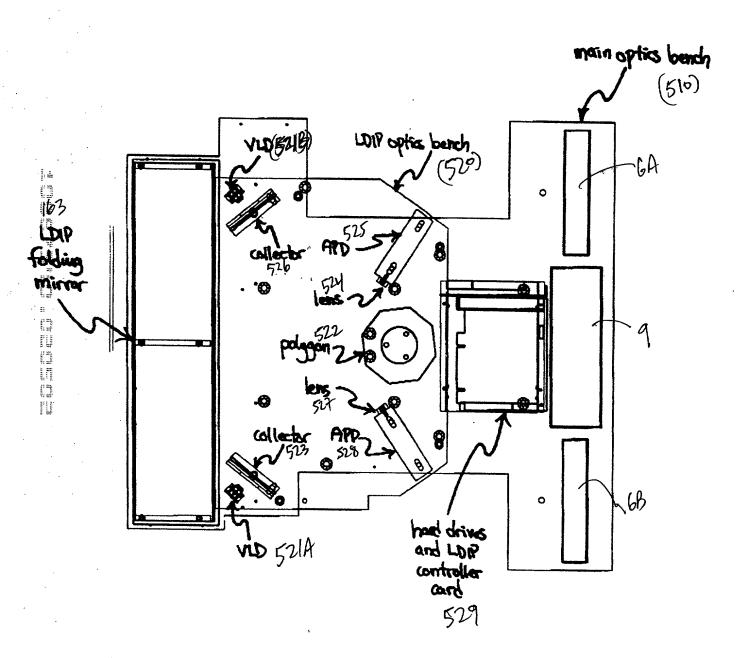
F1G. 12A



F1G. 12B



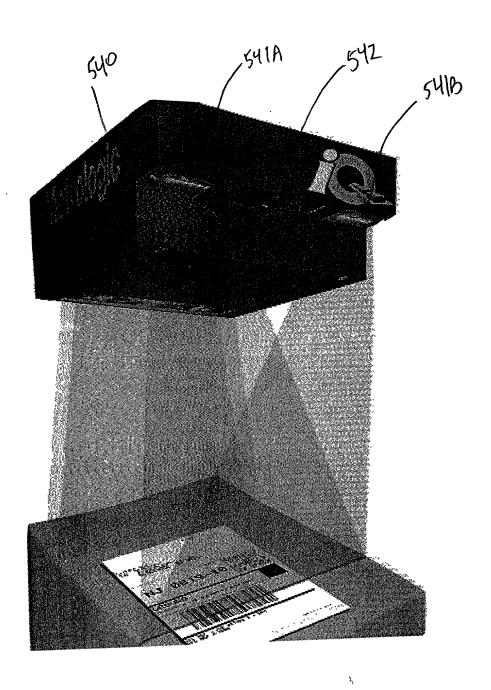
F16. 12C



F1G. 12D

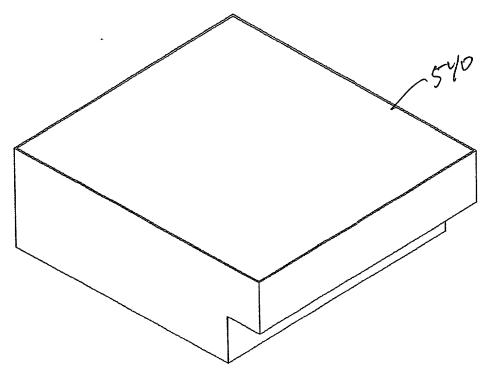
F16, 12E

( Small optics)

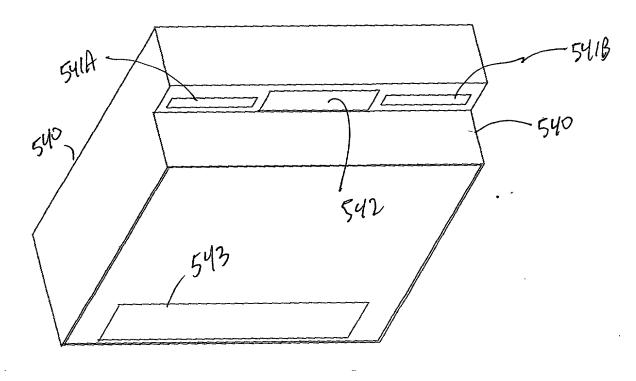


F1G. 13A





F1G. 13B



F16.13C

# PLLIM-BASED PACKAGE IDENTIFICATION AND DIMENSIONING (PID) SYSTEM

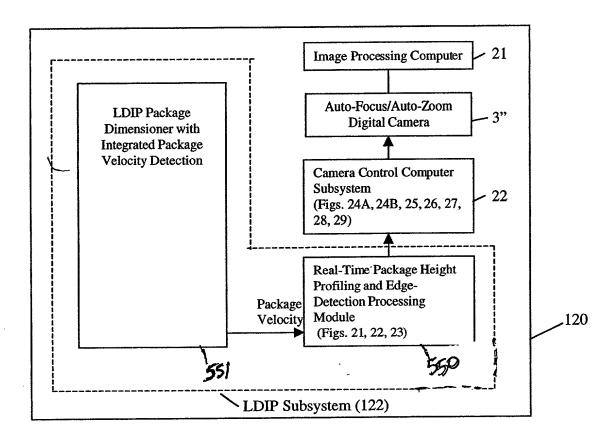
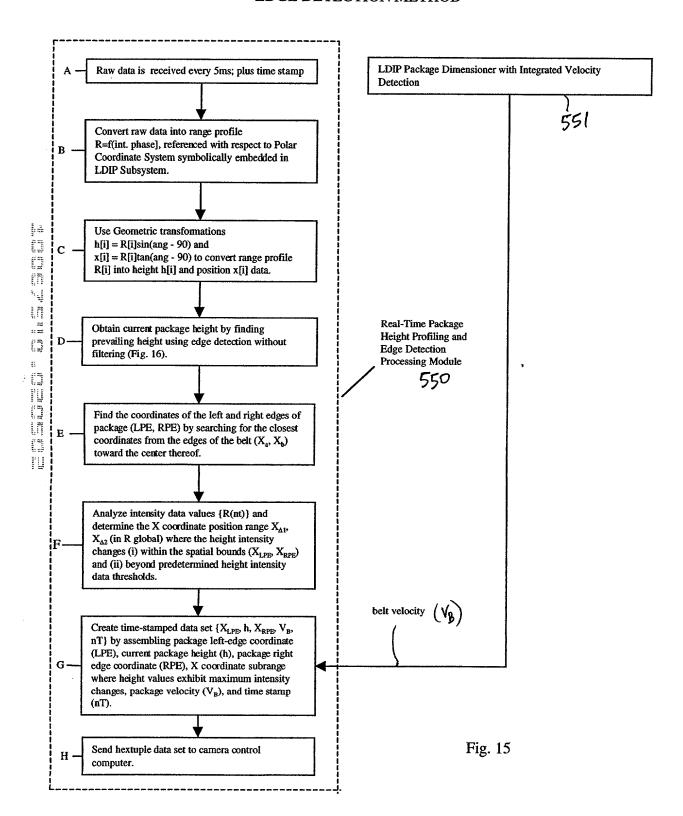


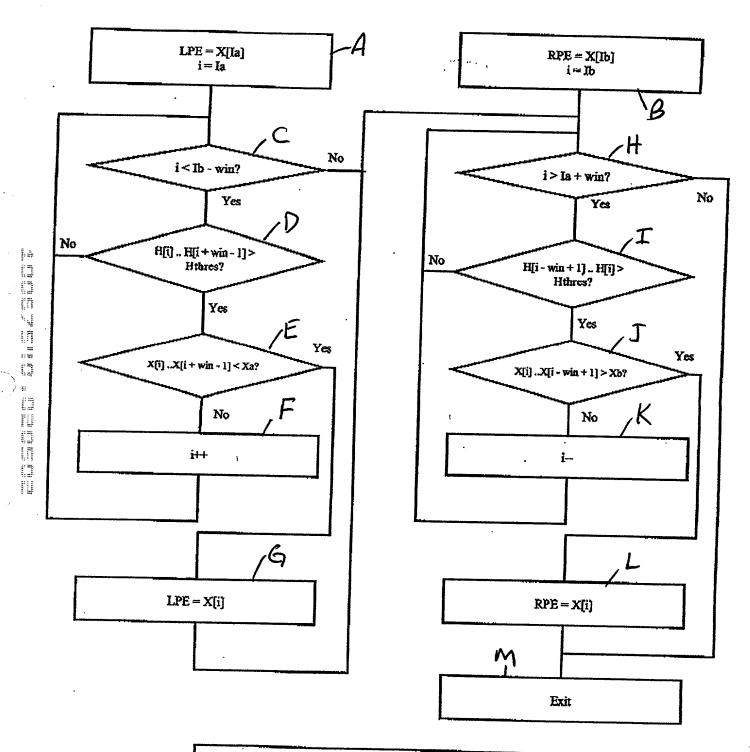
FIG. 14

#### LDIP REAL-TIME PACKAGE HEIGHT PROFILE AND EDGE DETECTION METHOD



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## LDIP Real Time Package Edge Detection



Xa = location of belt left edge; Xb = location of belt right edge
Ia = belt edge edge pixel; Ib = belt right edge pixel
LPE = Left package edge; RPE = Right package edge
H[] = Pixel height array; X[] = Pixel location array
win = package detection window

F1G.16

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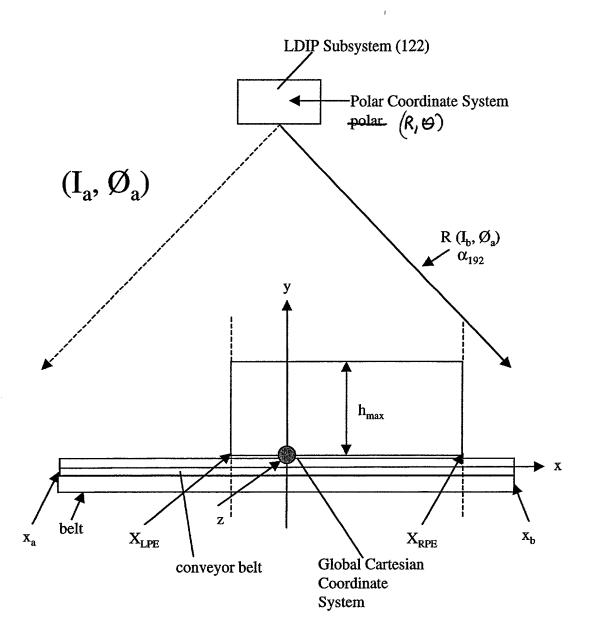


Fig. 17

H[]

# INFORMATION MEASURED AT SCAN ANGLES BEFORE COORDINATE TRANSFORMS

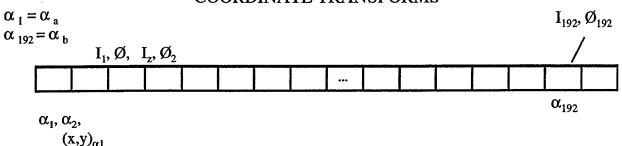


Fig. 17A

### RANGE AND POLAR ANGLE MEASURES TAKEN AT SCAN ANGLE $\alpha$ BEFORE COORDINATE TRANSFORMS

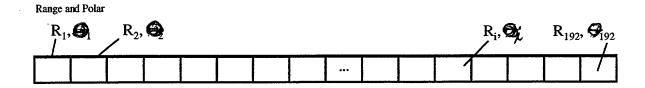
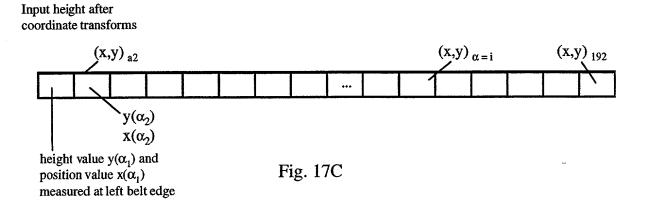
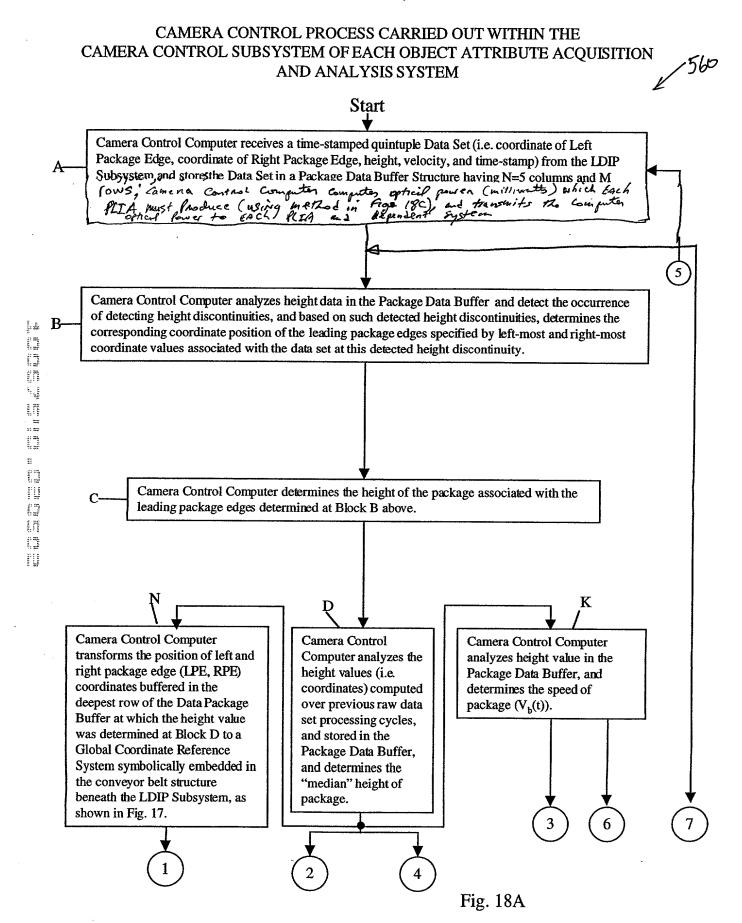
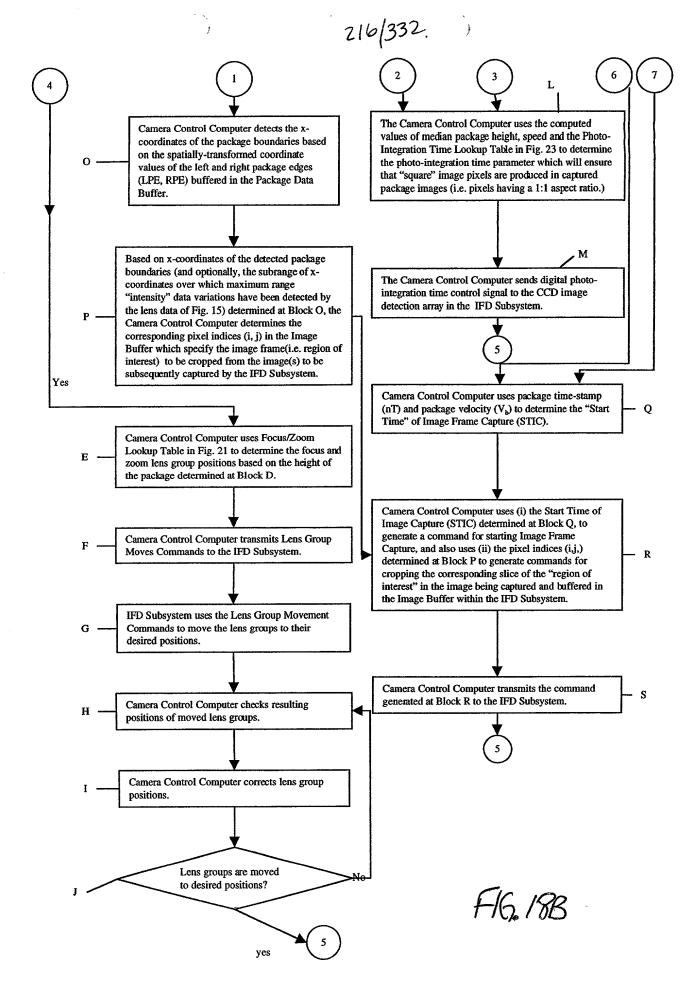


Fig. 17B

### MEASURED PACKAGE HEIGHT AND POSITION VALUES AFTER COORDINATE TRANSFORMS







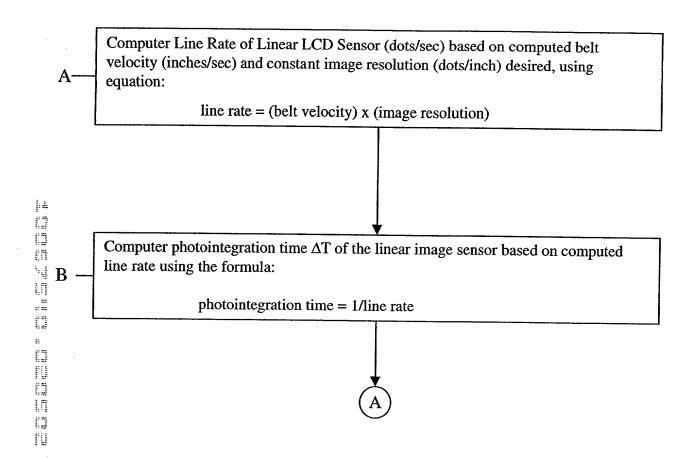


Fig. 18C1



Compute optical power (milliwatts) of each PLIA based on computed photointegration time ( $\Delta T$ ) using the following formula:

optical power of LD (milliwatts) = constant

photointegration time  $\Delta T$ 

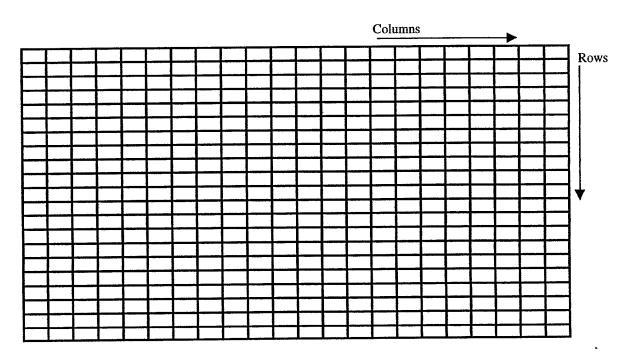
Fig. 18C2

X coordinate subrange where maximum range "intensity" variations have been detected

Left Package Edge (LDE)	Package Height (h)	Right Package Edge (RPE)	Package Velocity	Time-stamp (nT)	
<u> </u>					Row
					]Row
					Row
					Row
					Rov
			 1		1
					Row

Package Data Buffer (FIFO)

Fig. 19



Camera Pixel Data Buffer pixel indices (i,j,)

Fig. 20

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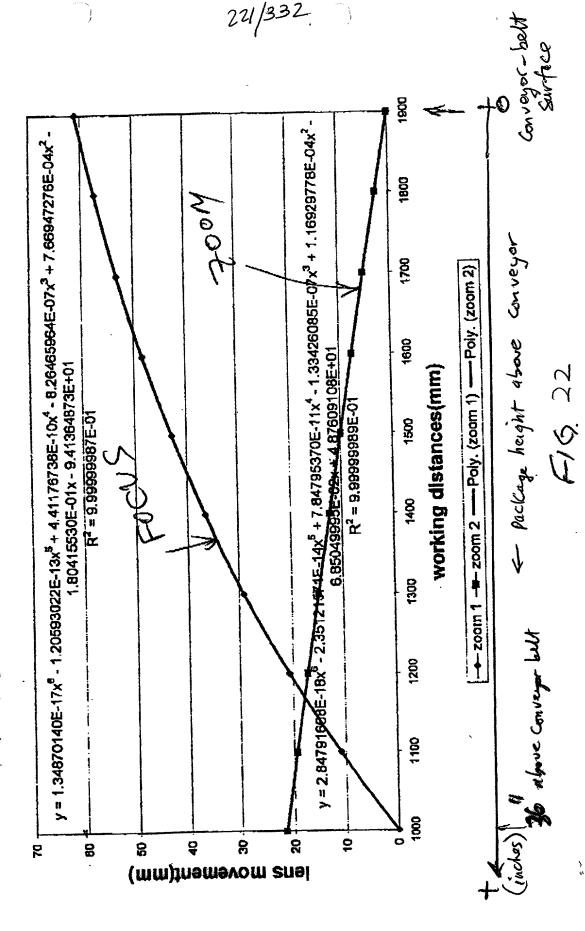
Zoom and Focus lans Group position

<b>32</b> ,,,,,,	ic .
Focus group distance (mm) Y (Focus)	2.47E-05 10.99009783 20.65783177 29.10917002 36.47312595 42.87845436 48.44003358 53.25495831 57.40834303 60.98883615
Zoom group distance (mm) Y (Zoom)	21.57489228 19.38089696 17.10673434 44.77137314 12.39153565 9.979114358 7.540639114 5.078794775 2.595989366 0.099972739
Distance from Camera H (mm)	(USE 1700 1700 1700 1700 1700 1700 1700 170

F16, 21

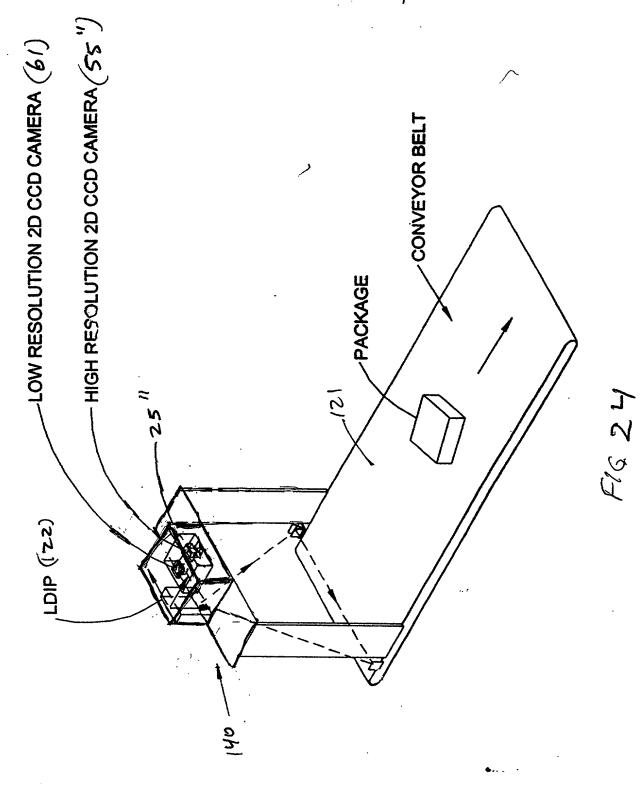


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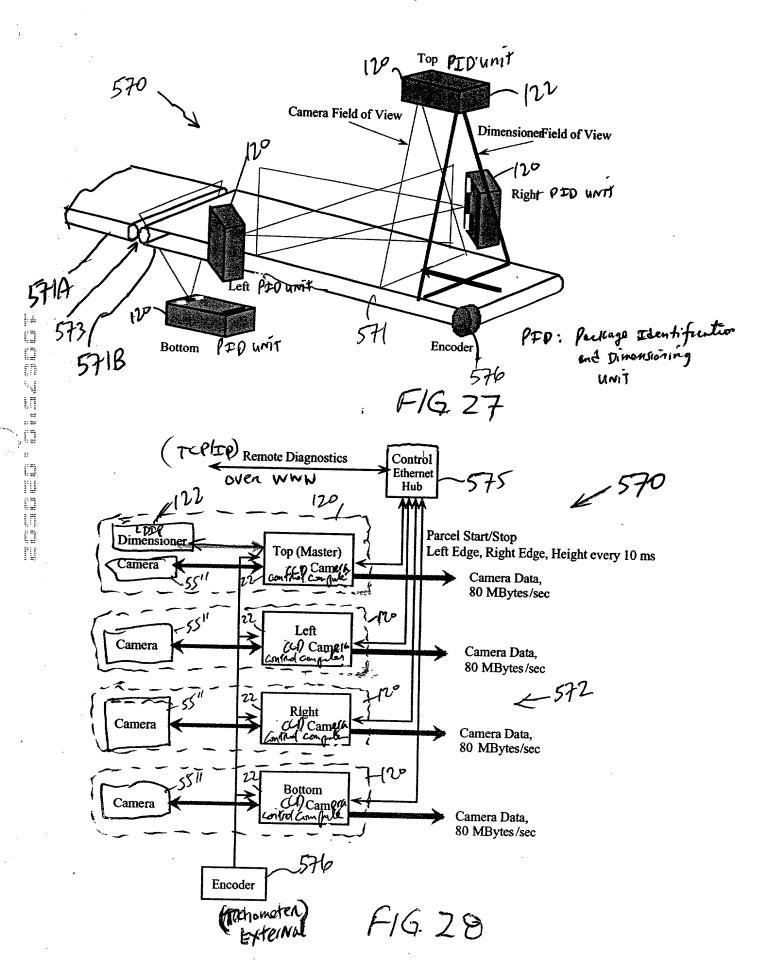


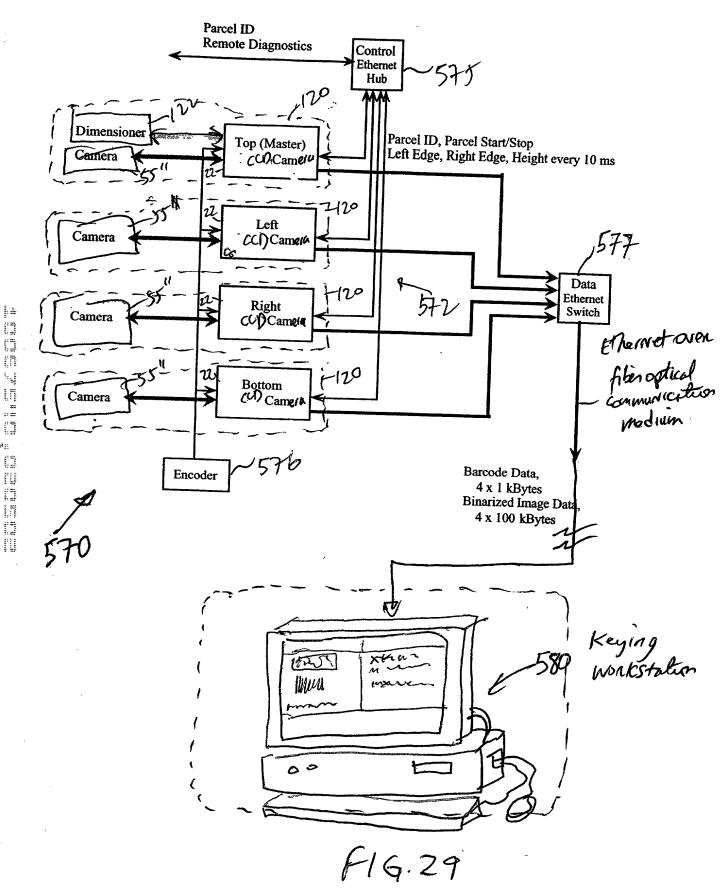
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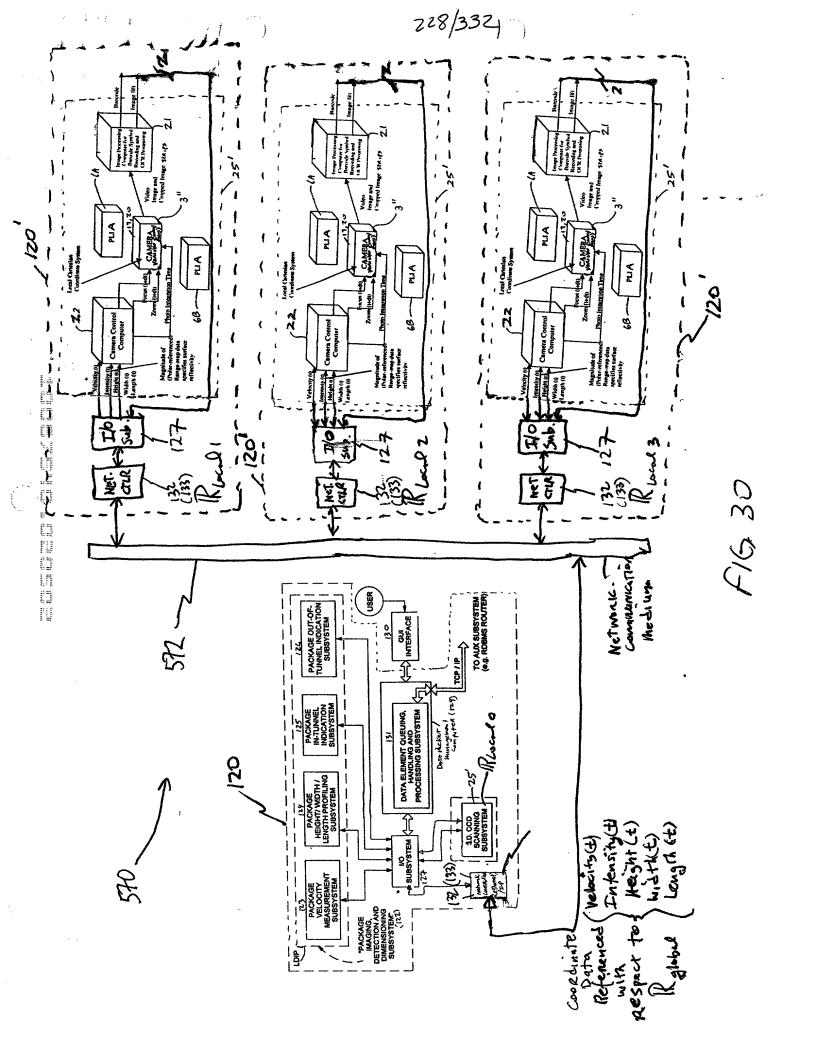
C/6.25

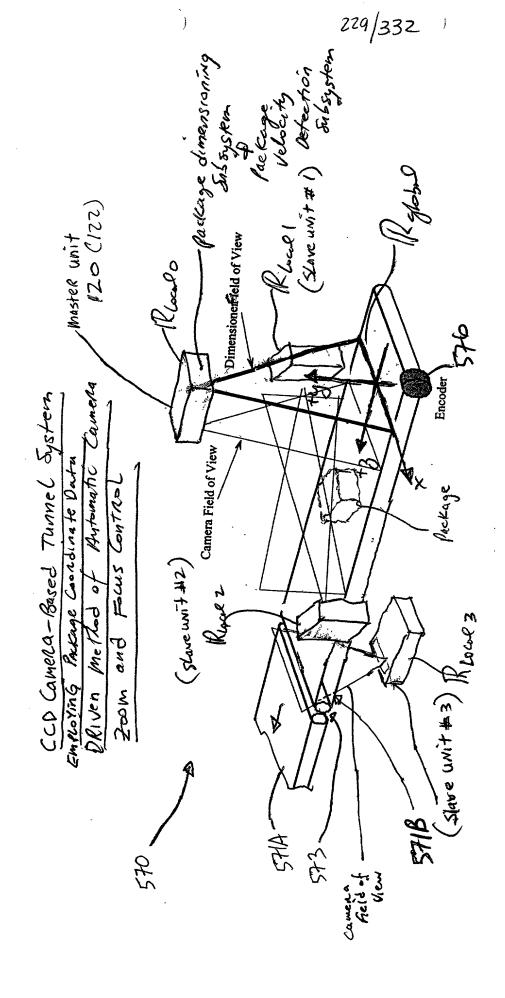




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Package Coopering of all 145 Package Coordinate Both Roces

For each package transported through tunnel system, master unit (with package dimensioning subsystem and velocity detection subsystem) generates package height, width, length and velocity data  $\{H,W,L,V\}_G$ , referenced with respect to global coordinate reference system  $R_{global}$ , and transmits such package dimension data to each slave unit downstream, using the system's data communications network.

Each slave unit receives the transmitted package height, width and length data  $\{H,W,L,V\}_G$  and converts this coordinate information into the slave unit's local coordinate reference system  $R_{local\,P}$ ,  $\{H,W,L,V\}_I$ 

В

 $\mathbf{C}$ 

The camera control computer in each slave unit uses the converted package height, width, length data {H,W,L}<sub>i</sub> and package velocity data to generate camera control signals for driving the camera subsystem in the slave unit to zoom and focus in on the transported package as it moves by the slave unit, while ensuring that captured images having substantially constant O.P.I. Resolution and 1:1 aspect ratio.



Each slave unit captures images acquired by its intelligently controlled camera subsystem, buffers the same, and processes the images to decode bar code symbol identifiers represented in said images, and/or to perform optical character recognition (OCR) thereupon.

D

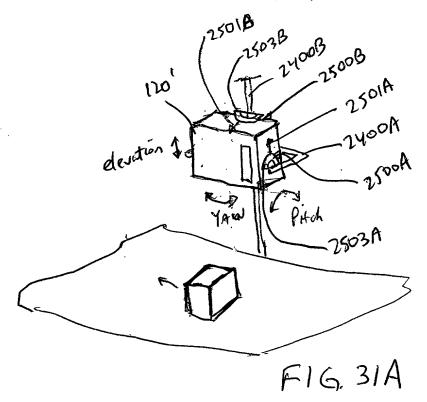
E

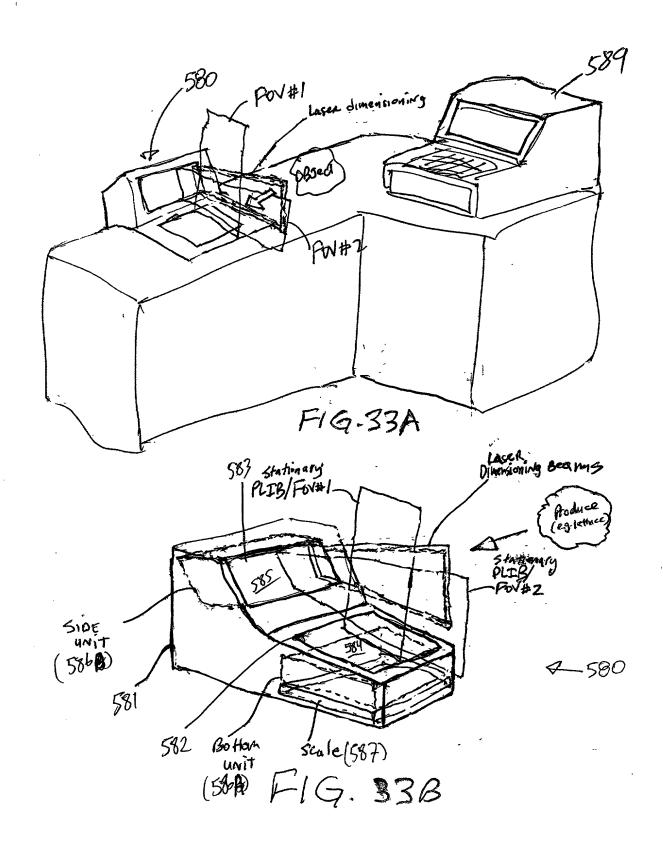
F

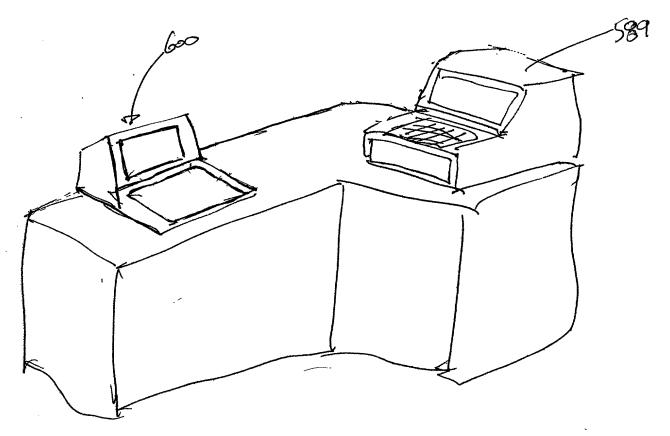
The slave unit which decodes a bar code symbol in a processed image automatically transmits a package identification data element (containing symbol character data representative of the decoded bar code symbol) to the master unit (or other designated system control unit employing data element management functionalities) for package data element processing.

Master unit time-stamps received package identification data element, places said data element in a data queue, and processes package identification data elements and time-stamped package dimension data elements in said queue to link each package identification data element with one said corresponding package dimension data element.

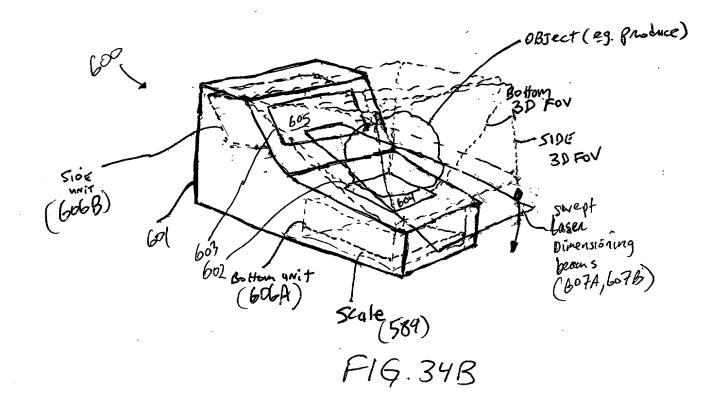
F16. 32B

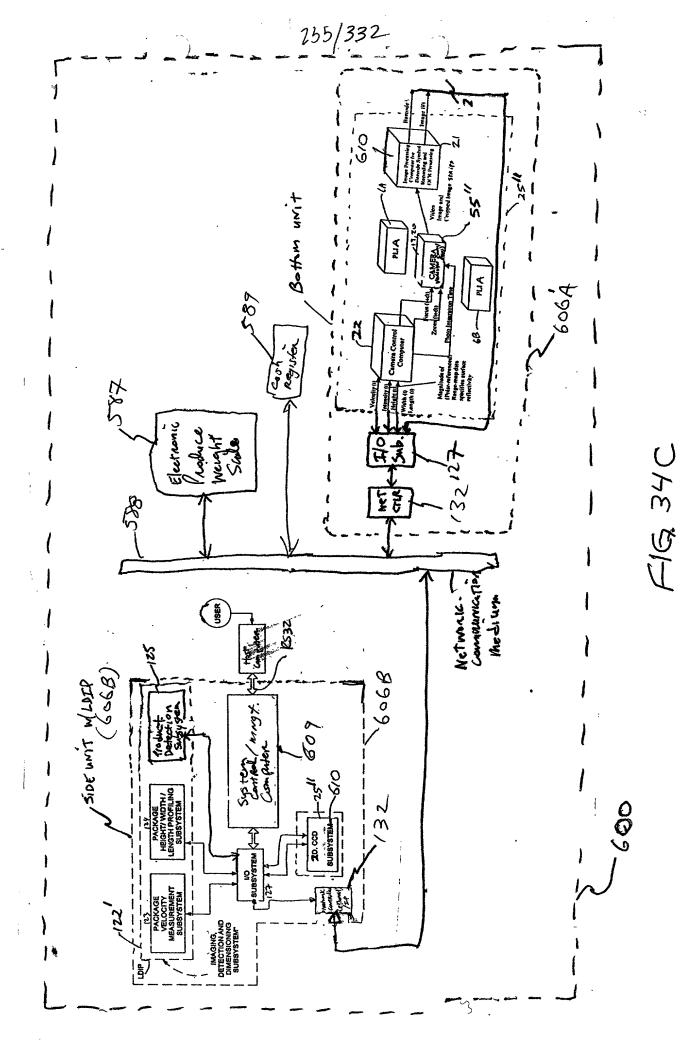


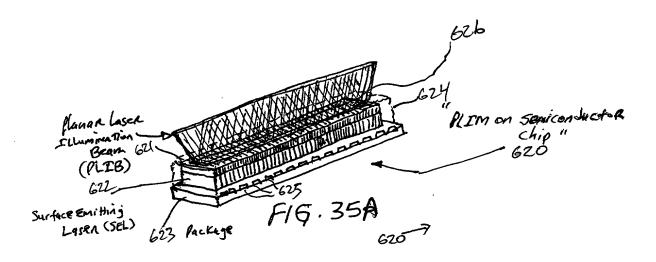


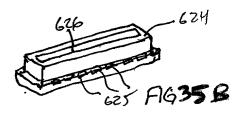


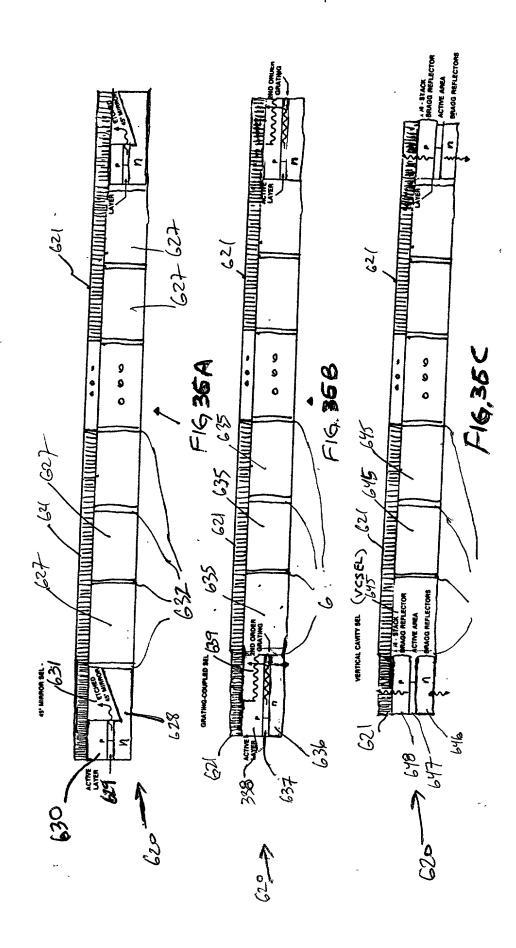
F1G. 34A











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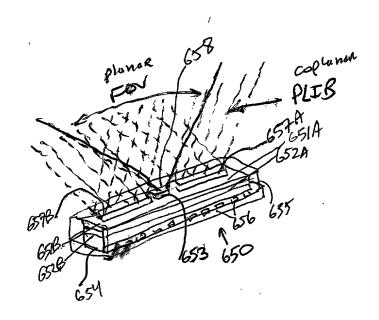
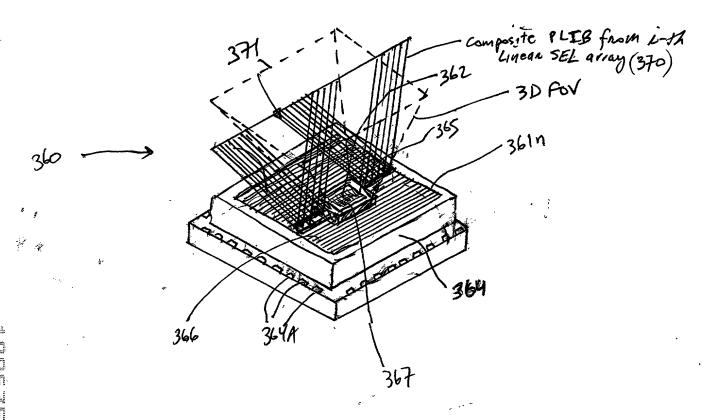
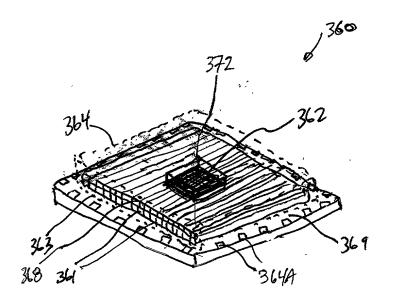


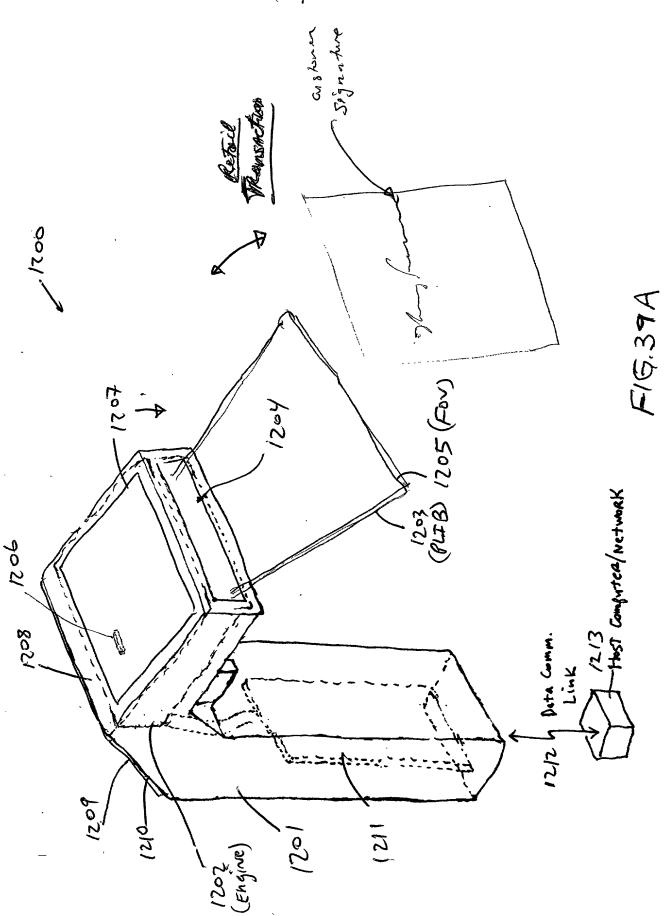
FIG. 37



F1G. 38A



F16.38B



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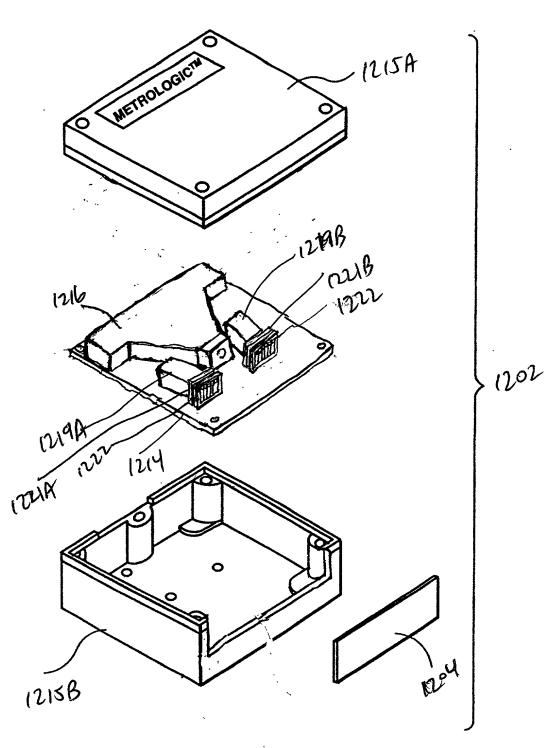
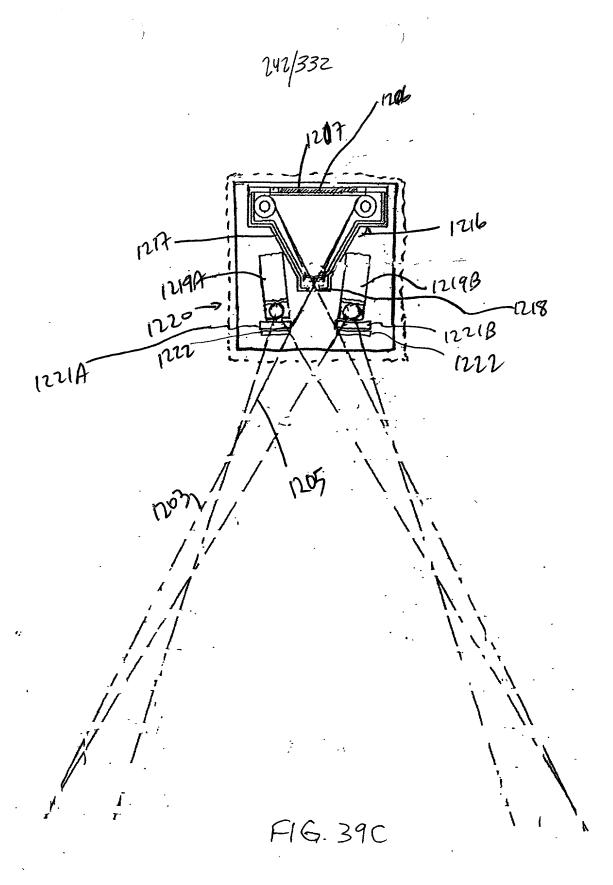
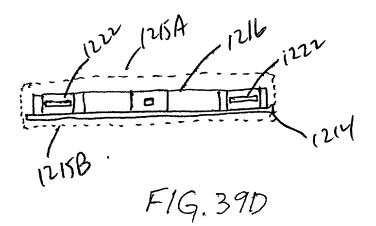
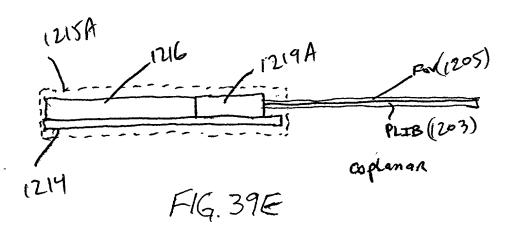


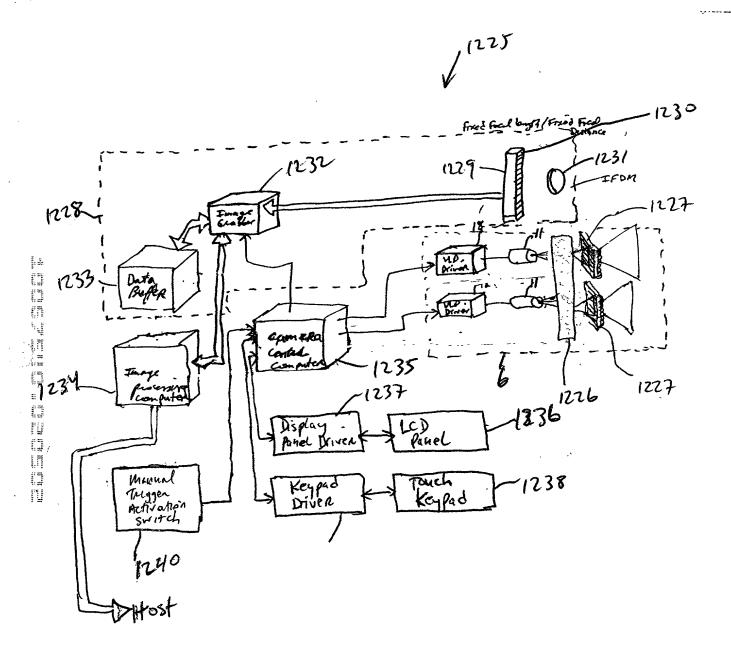
FIG. 39B



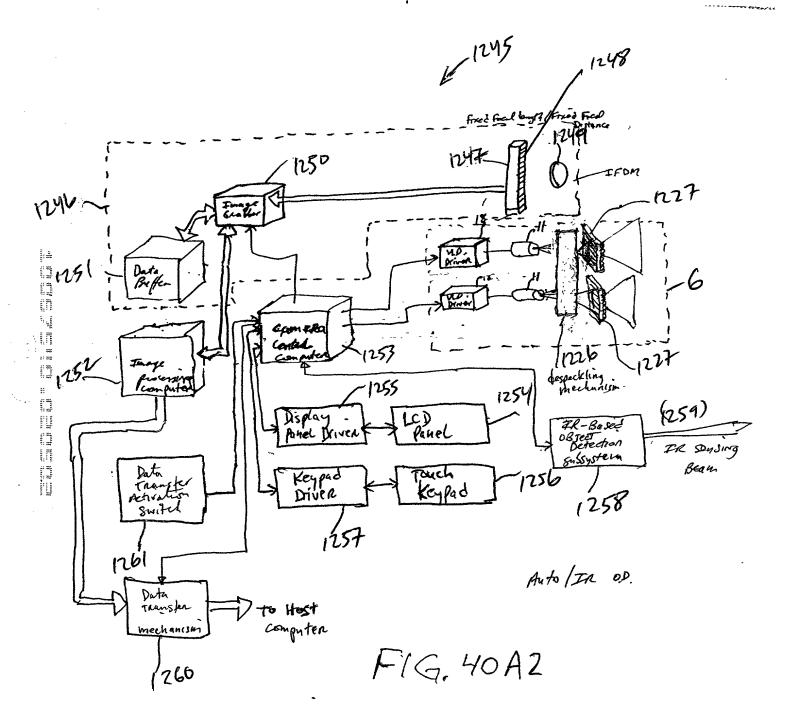


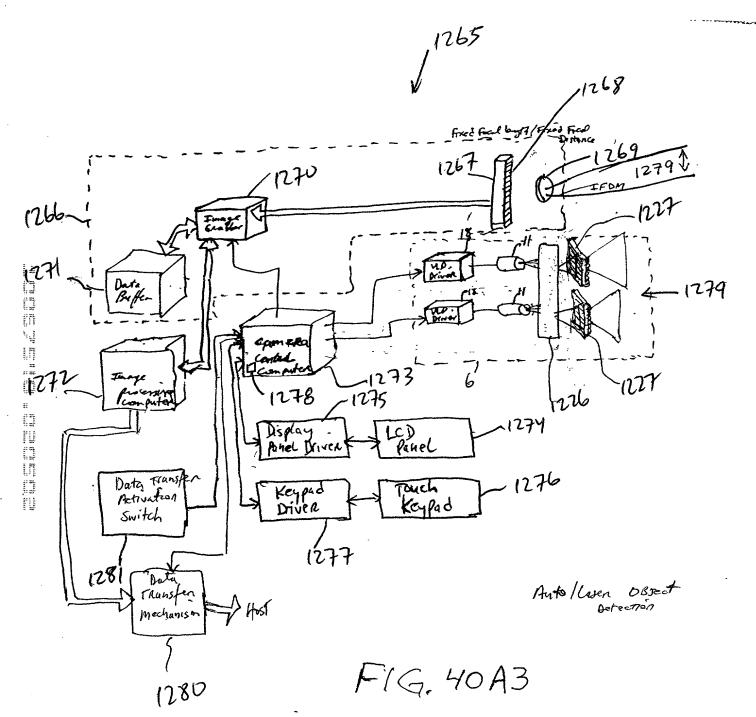


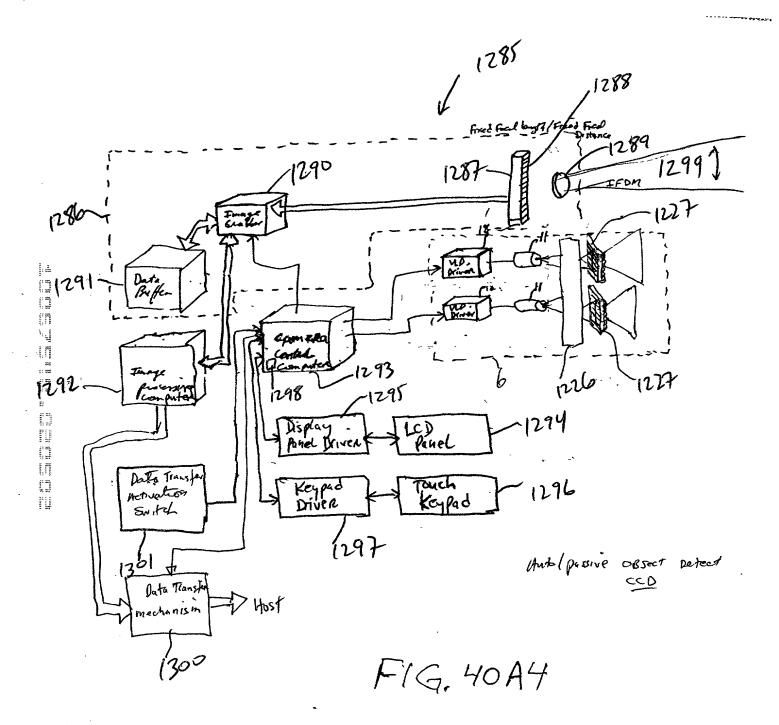
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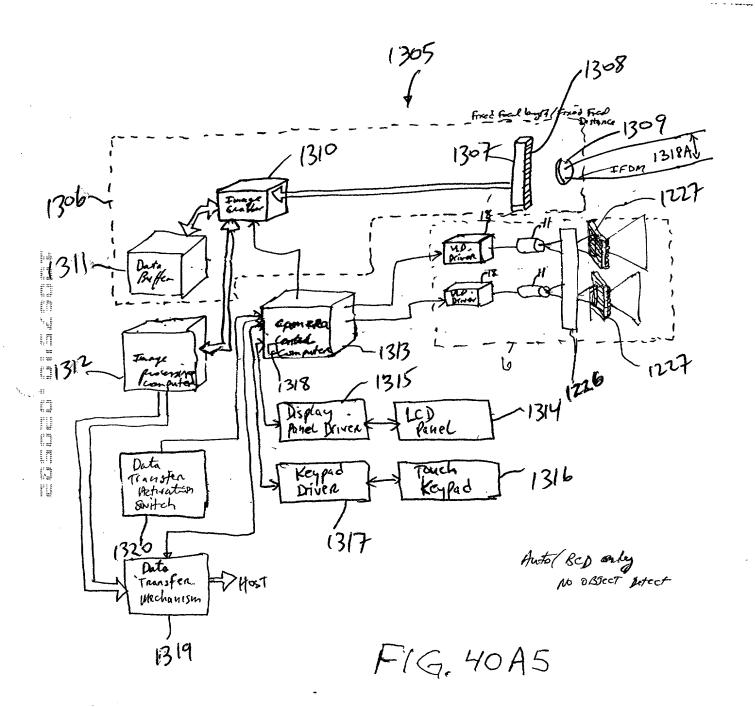


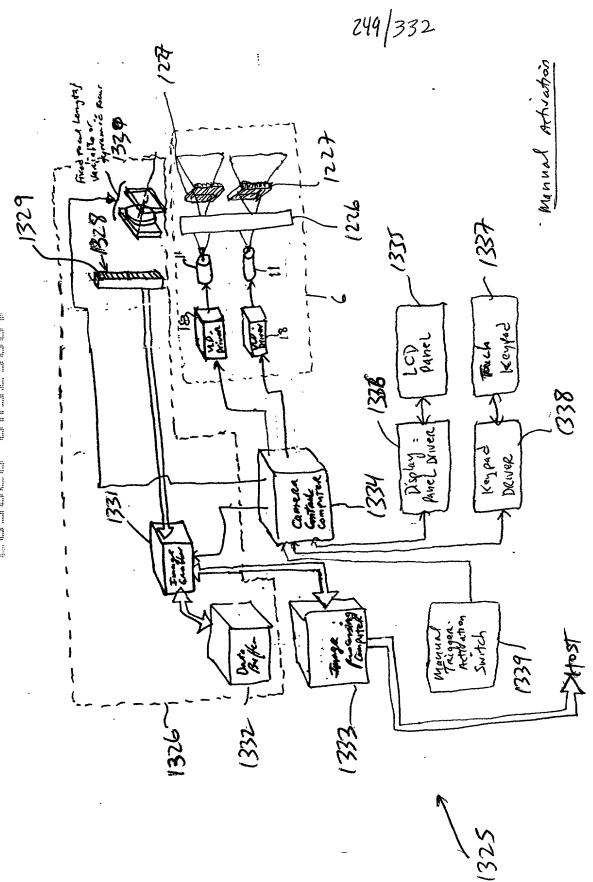
F1G. 40A1





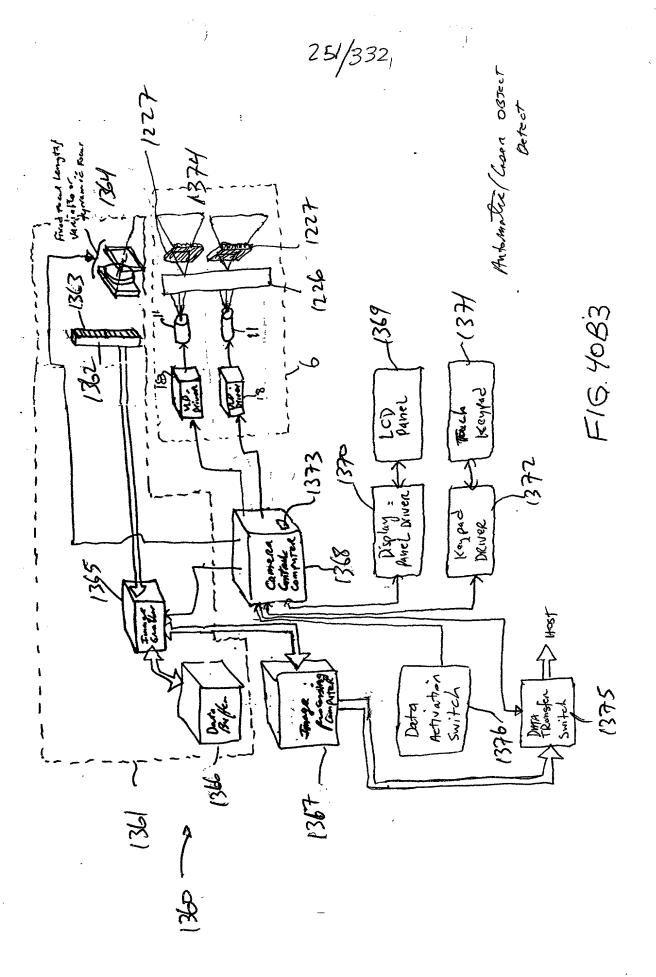




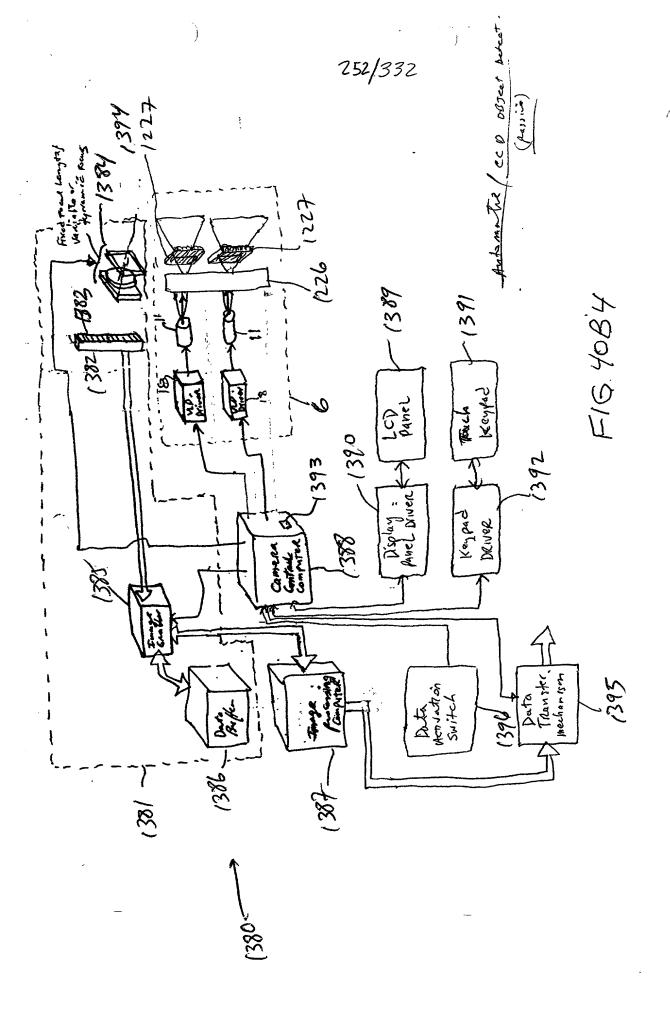


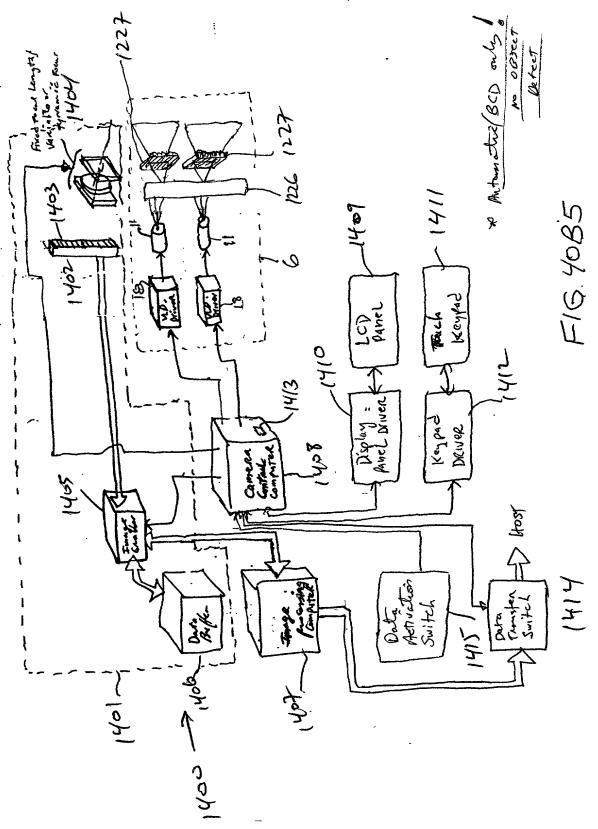
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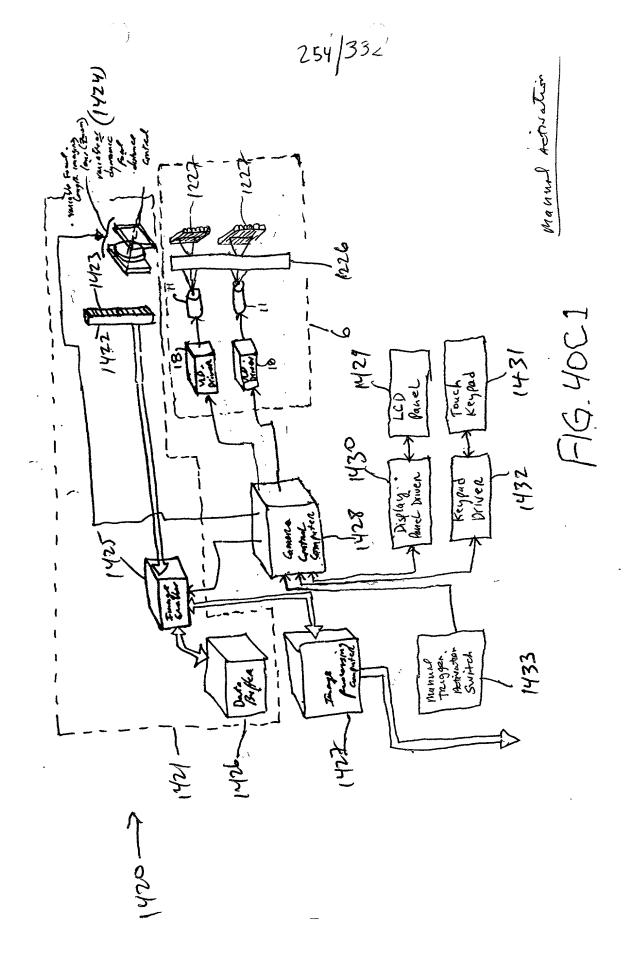


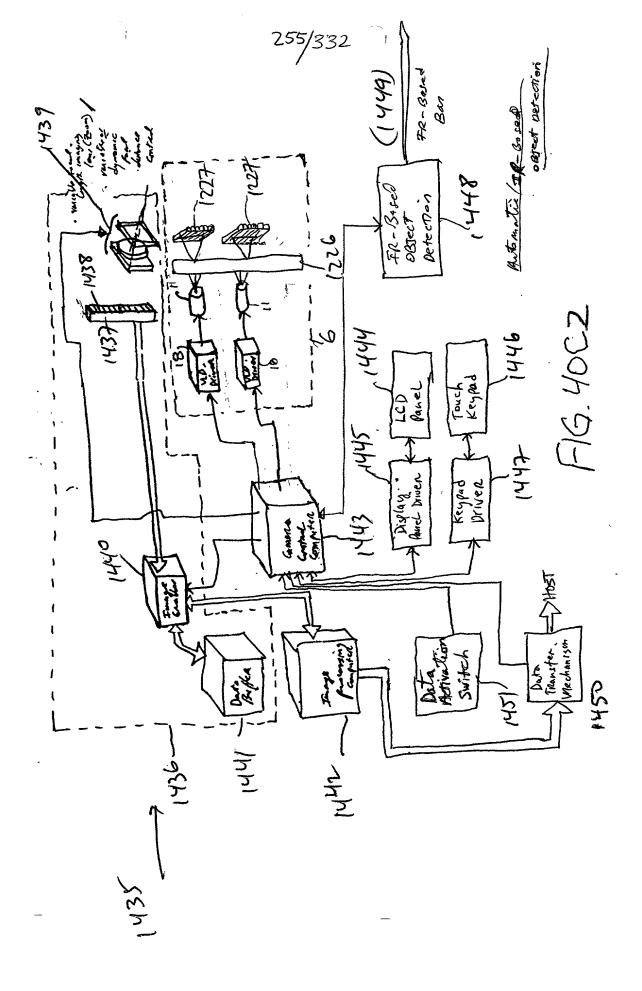
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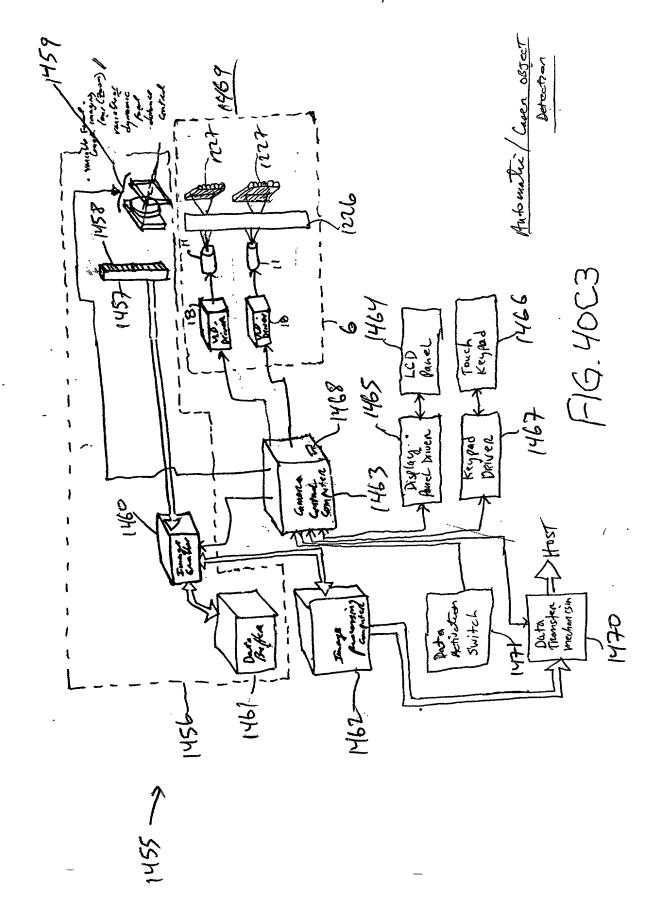


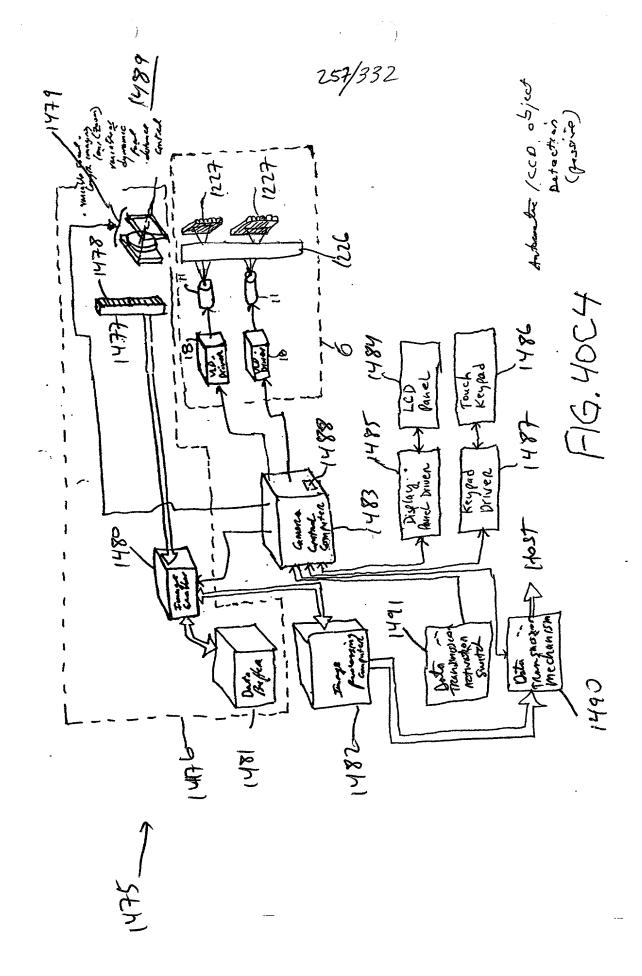


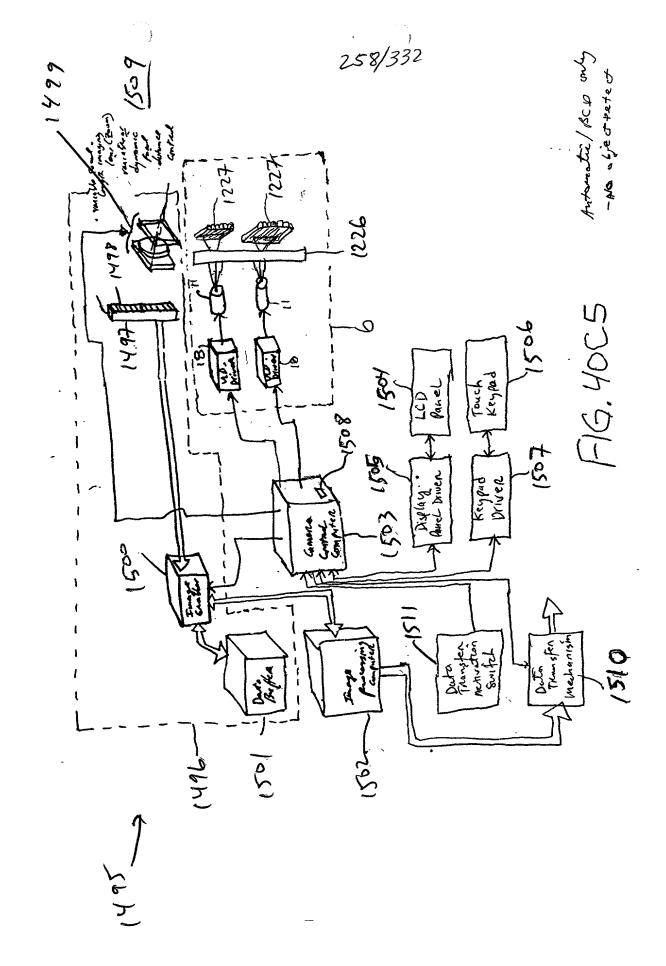
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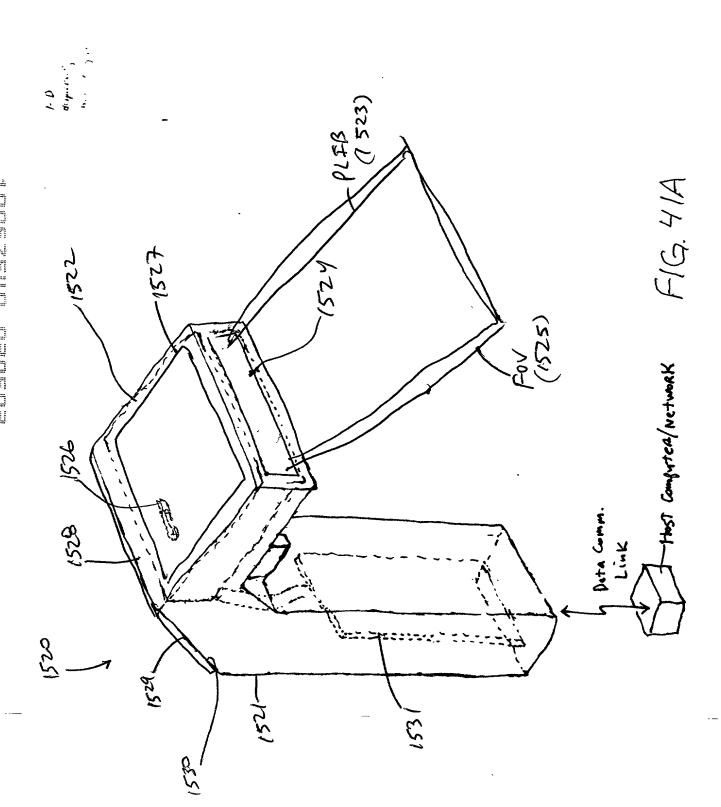












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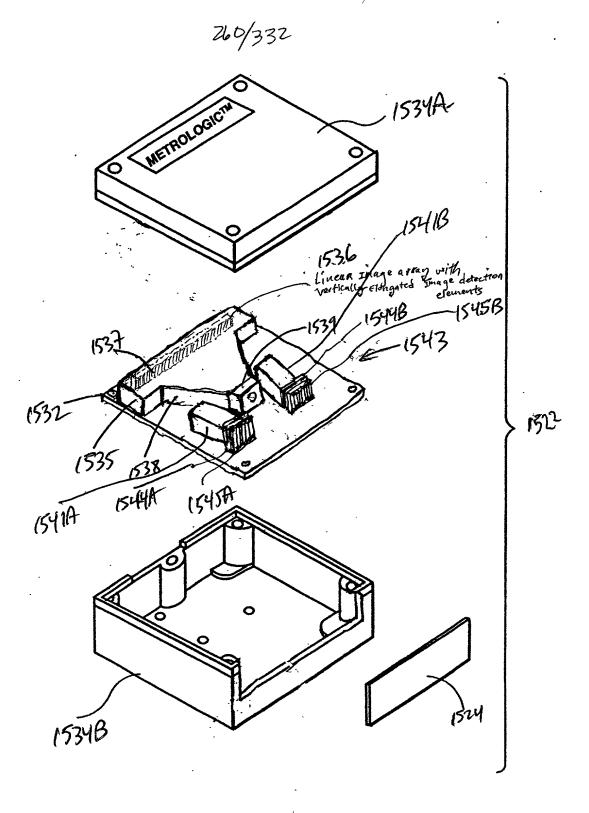
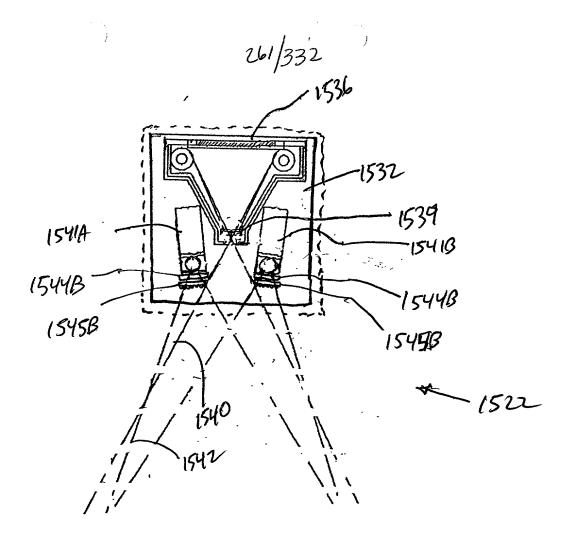
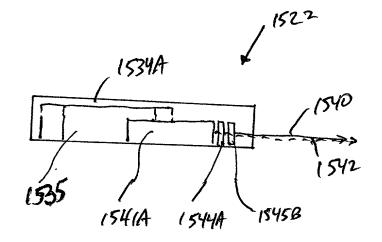


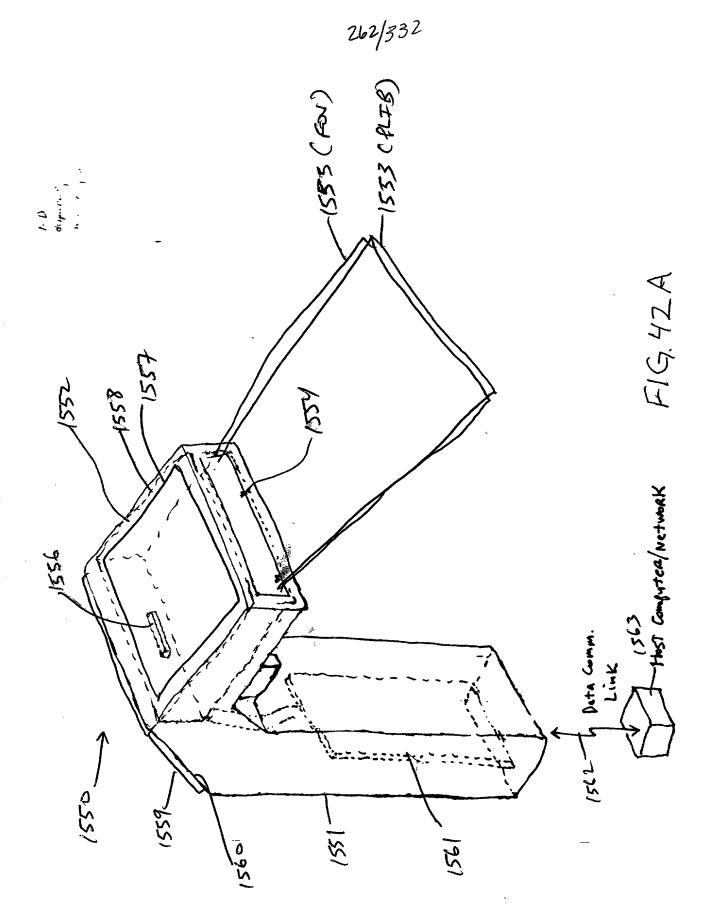
FIG. 41B



F16.41C



F19.41D



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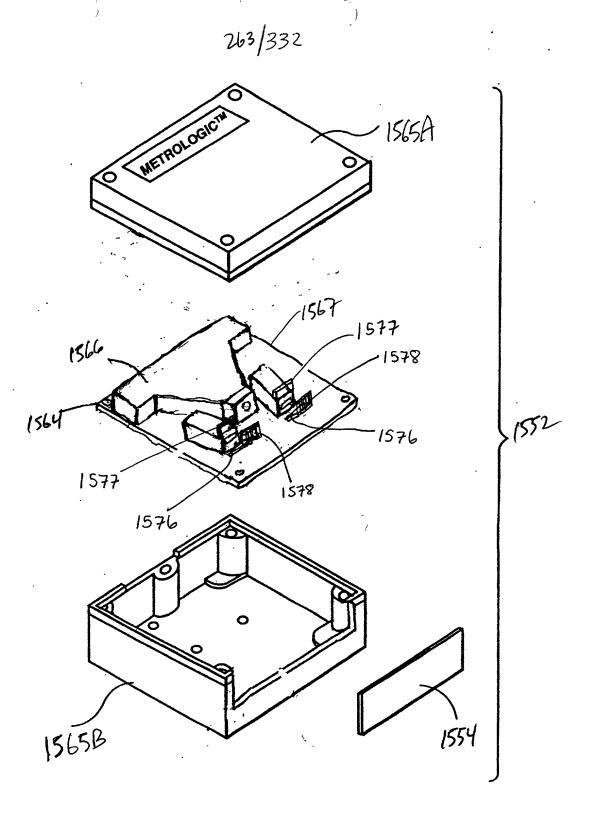
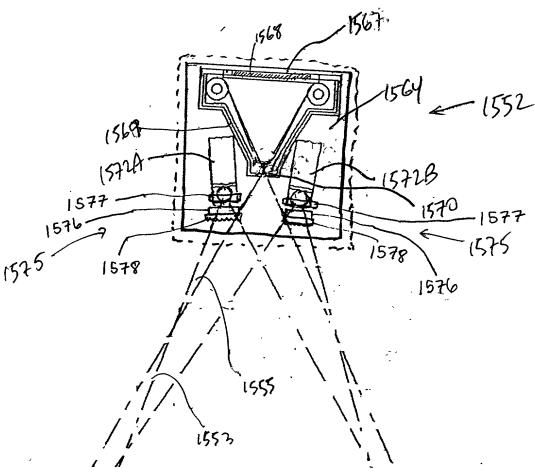
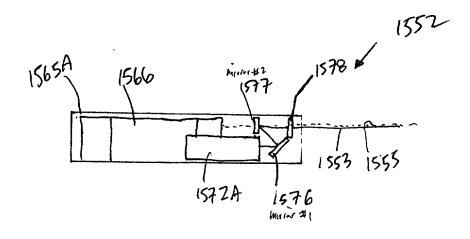


FIG. 42B

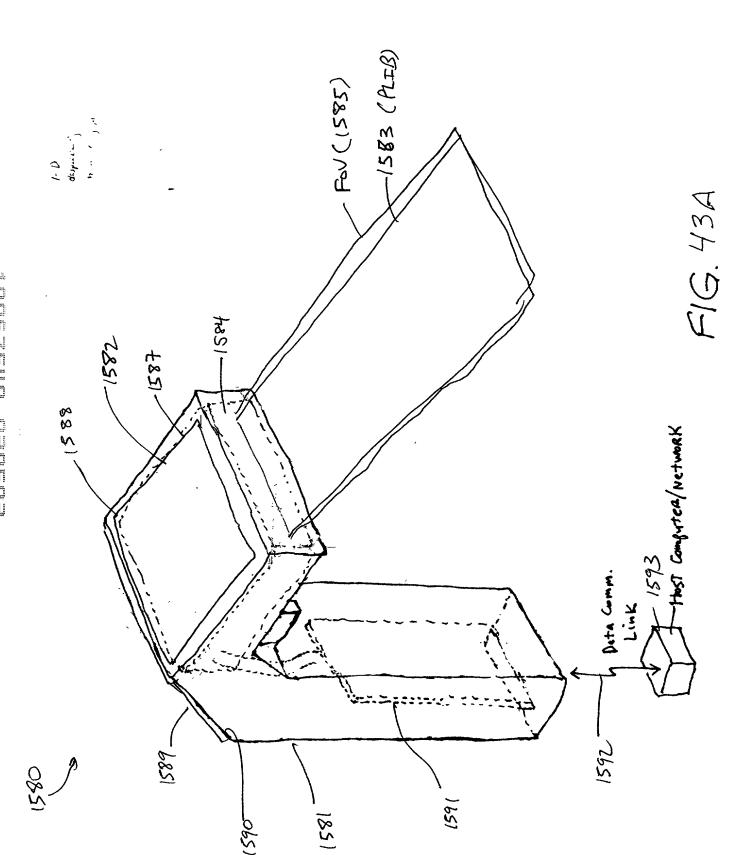




F1G, 42C



F1G.42D



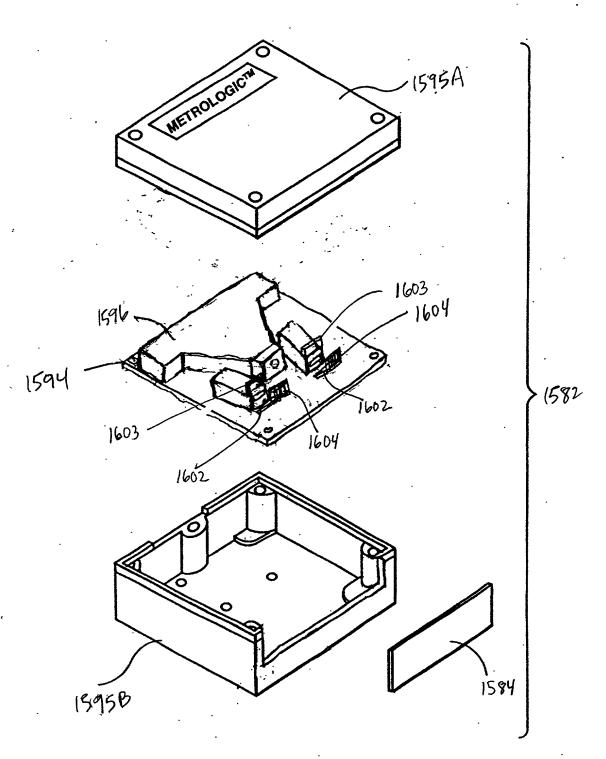
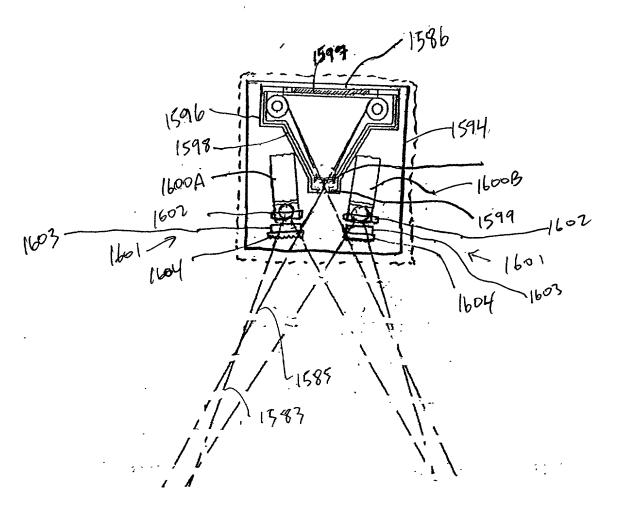


FIG. 43B



F16,43C

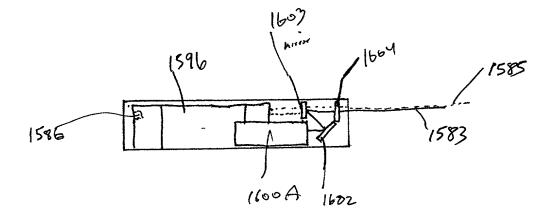
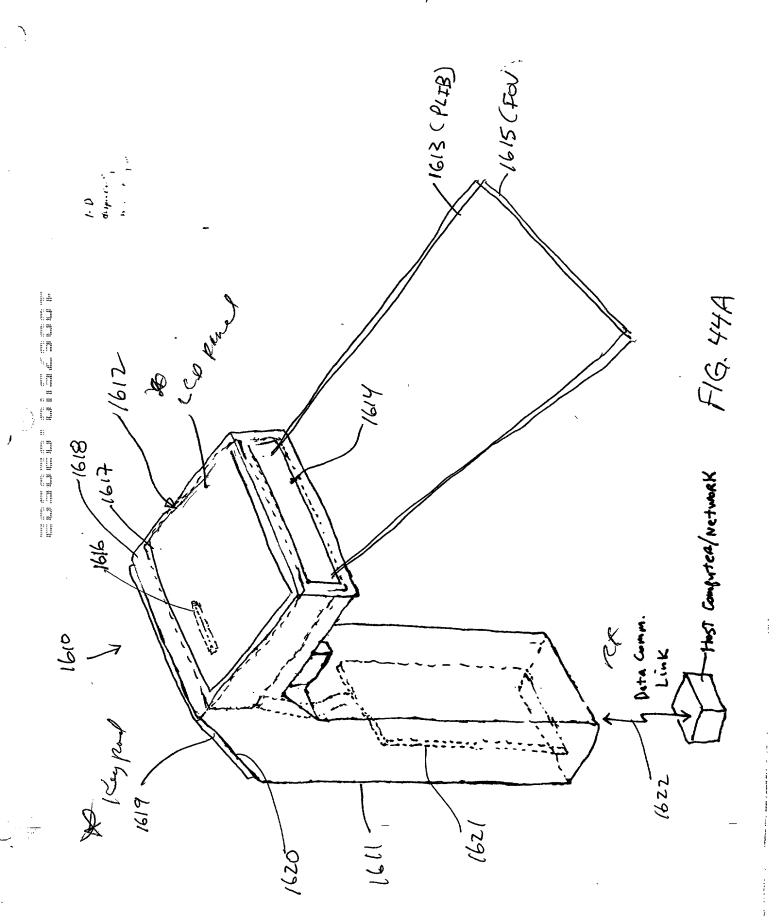


FIG. 43D



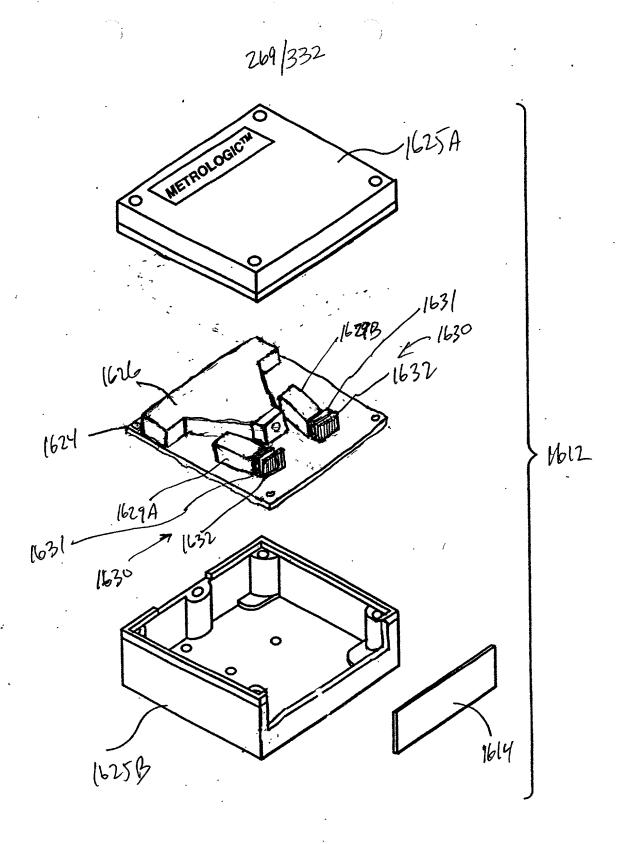
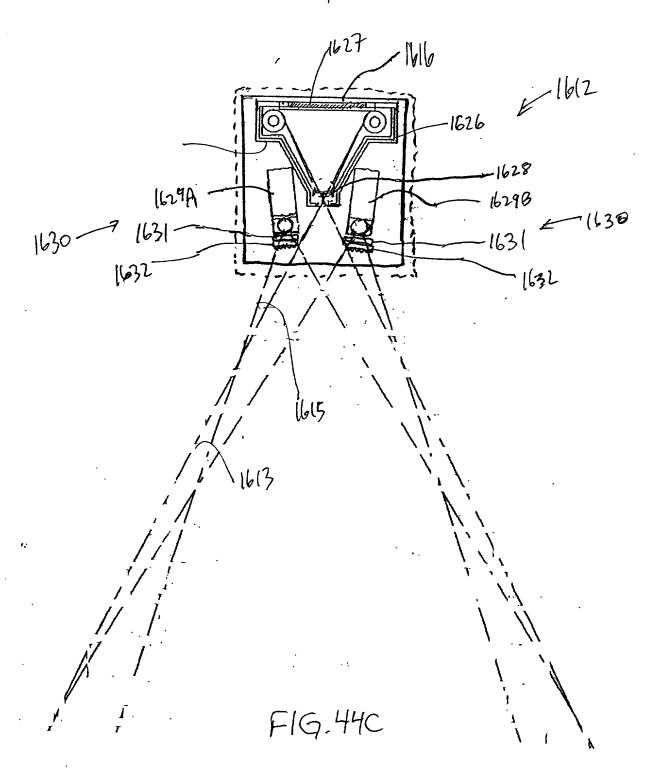
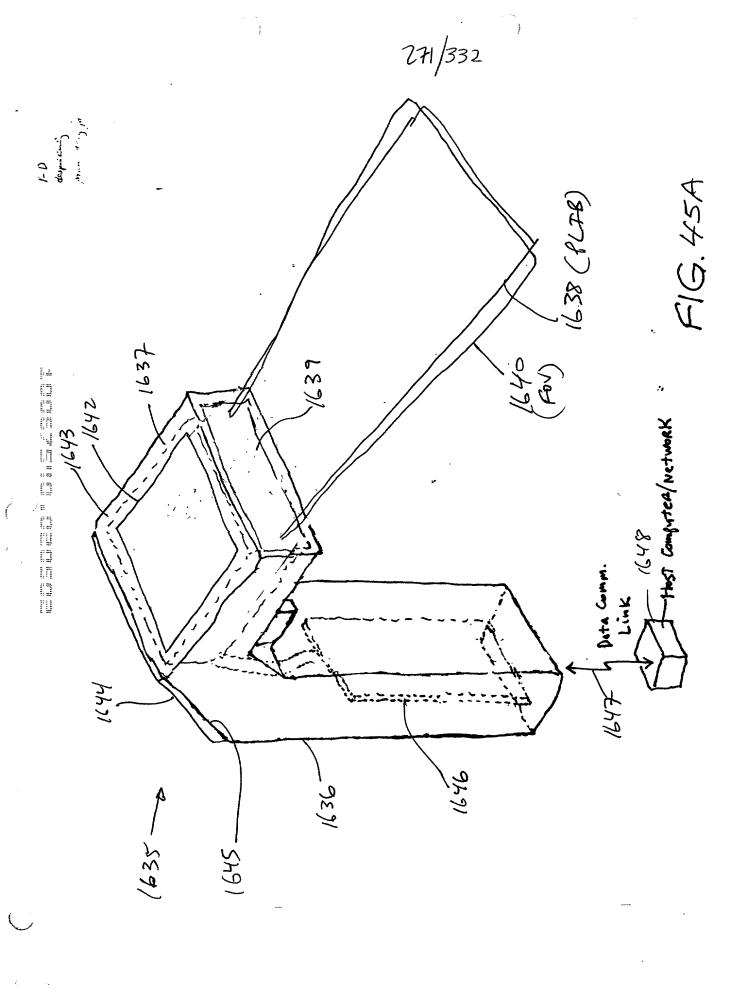


FIG. 44B



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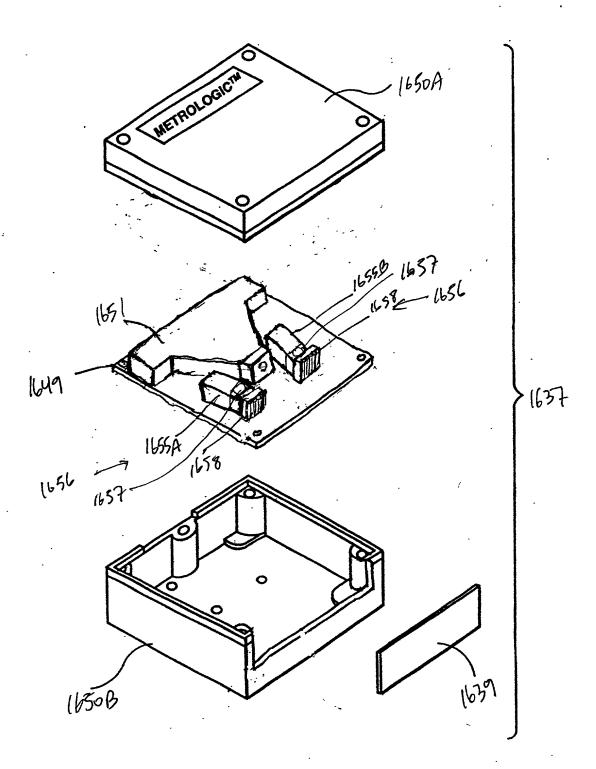
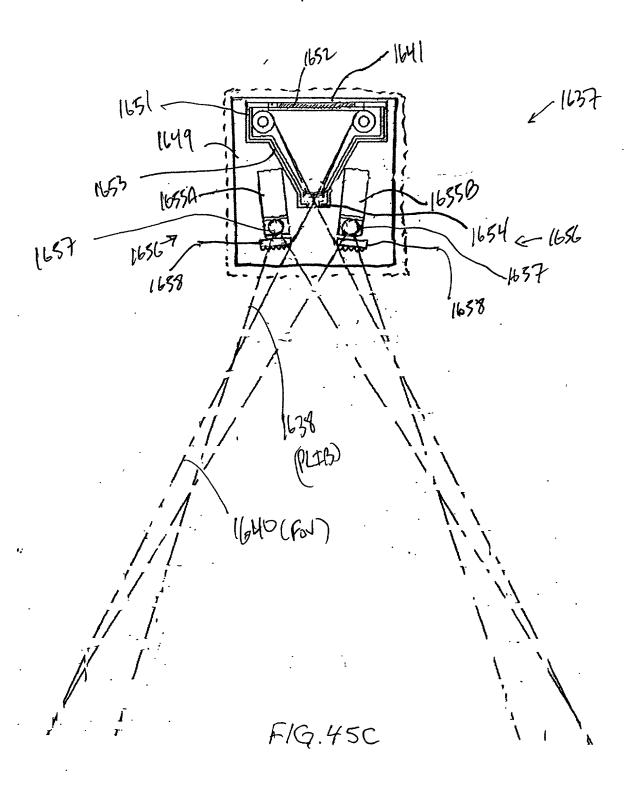
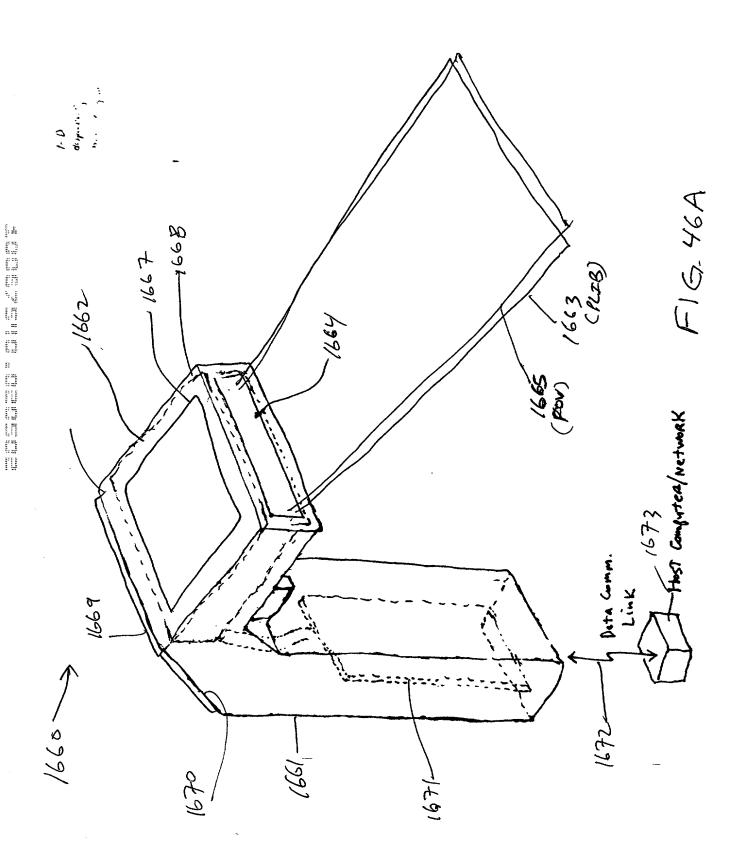


FIG. 458





 $C_{ij}$ 

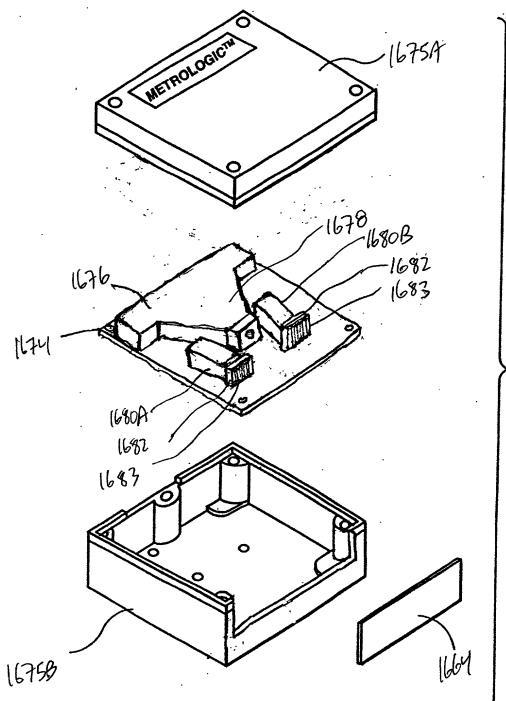
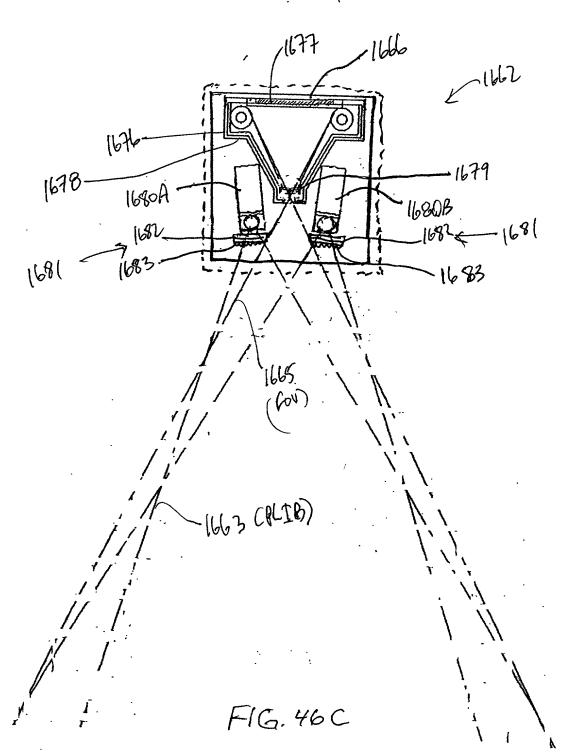
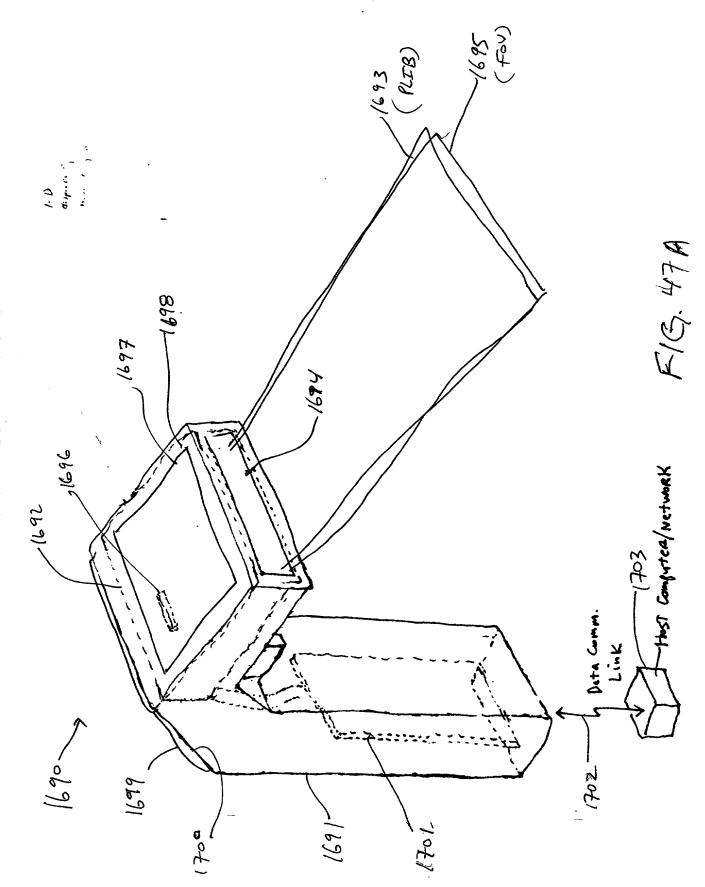


FIG. 468



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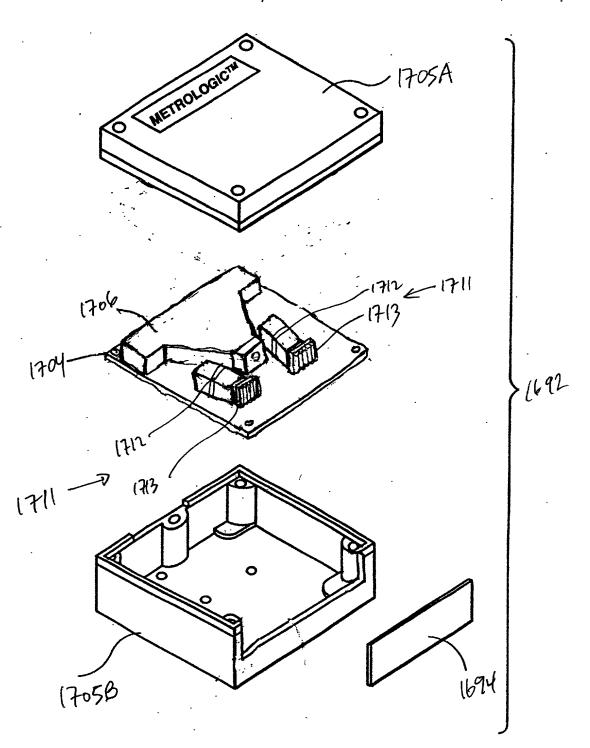
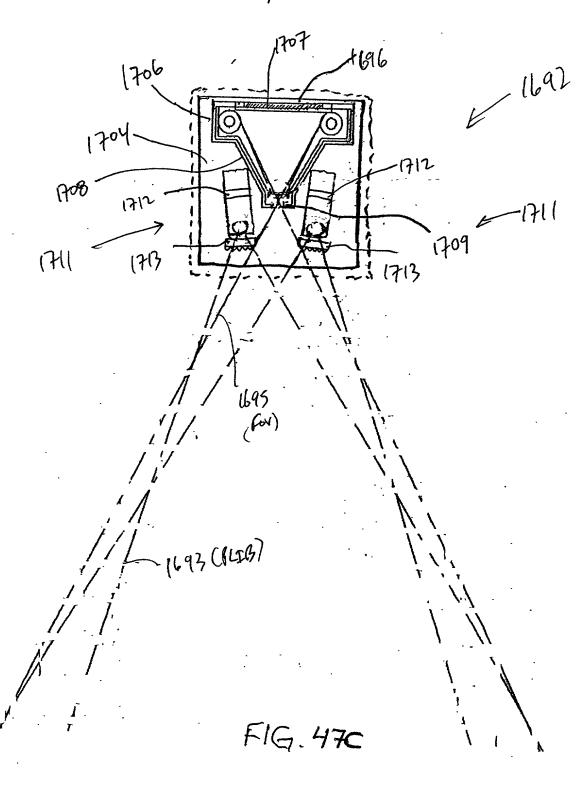
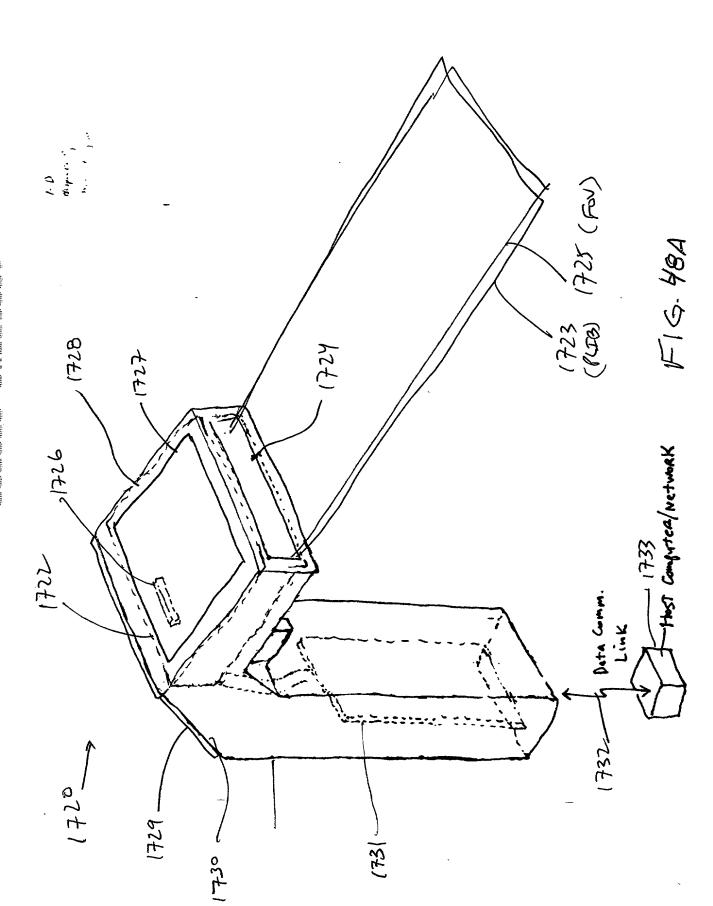


FIG. 47B



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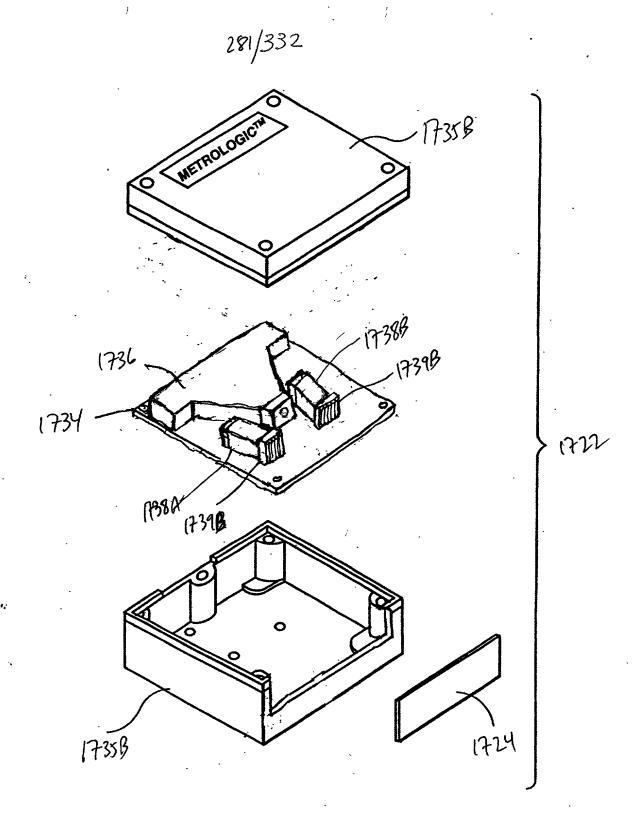
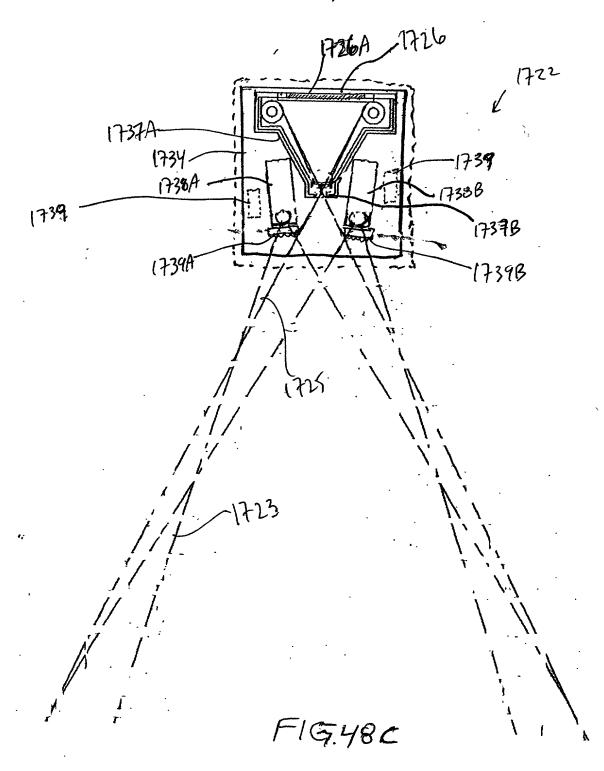


FIG. 48B



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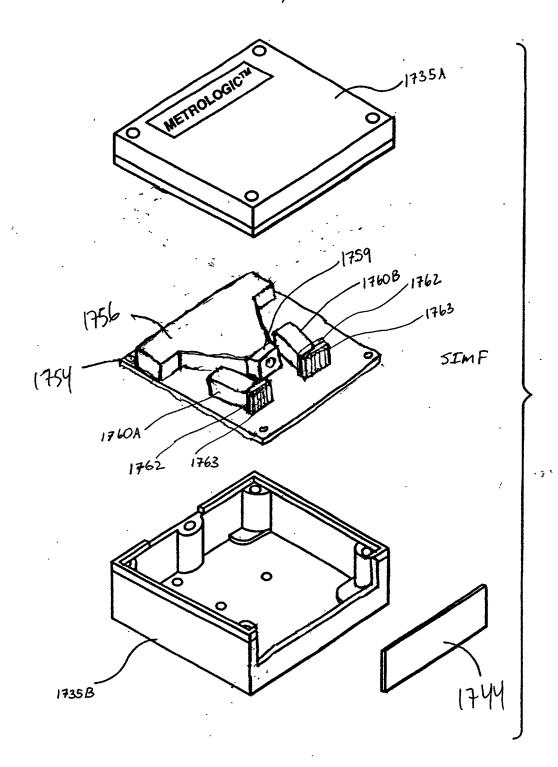
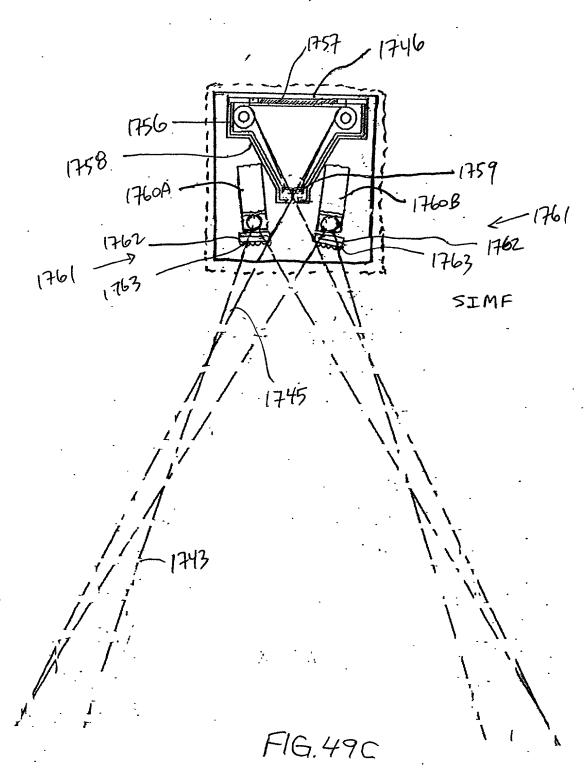
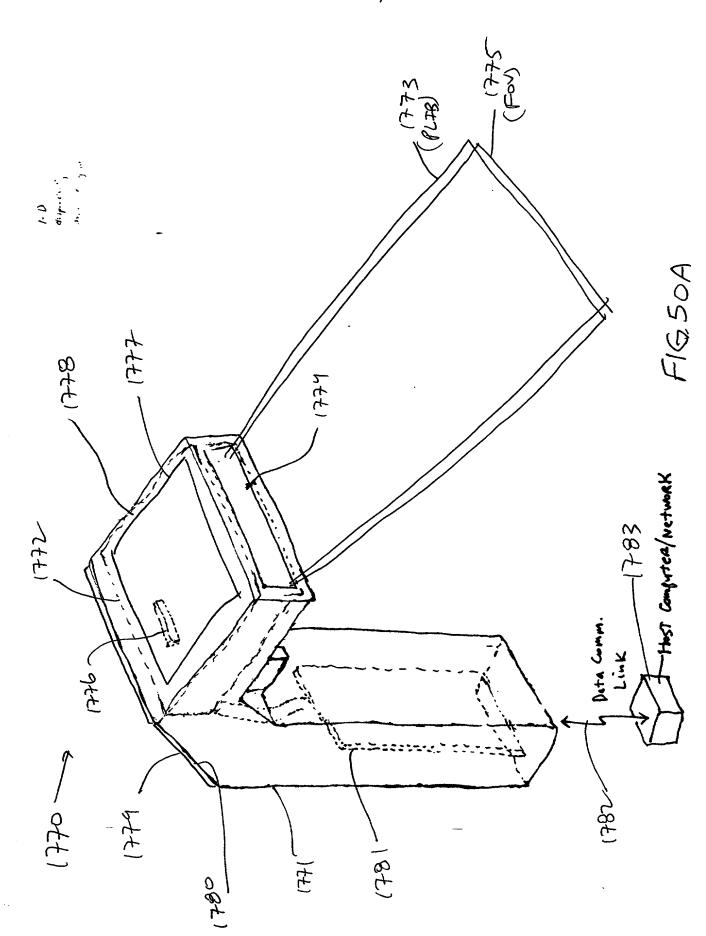


FIG. 49B



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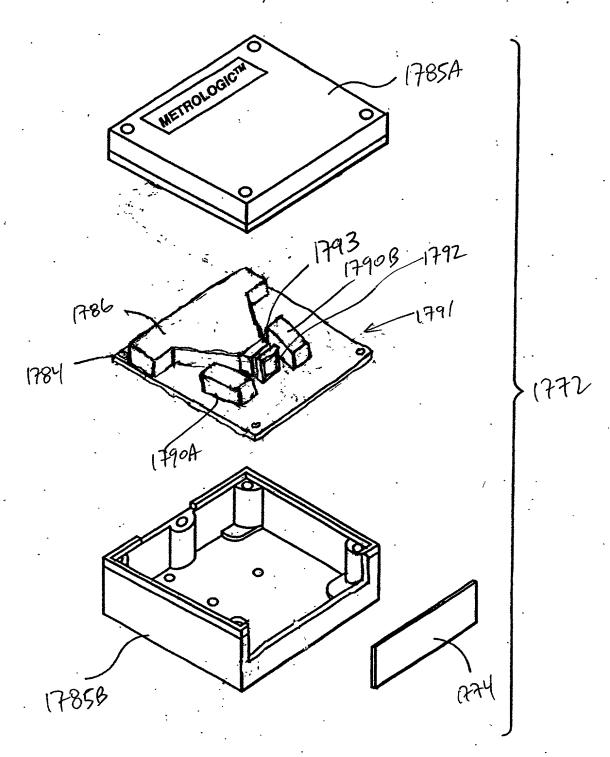
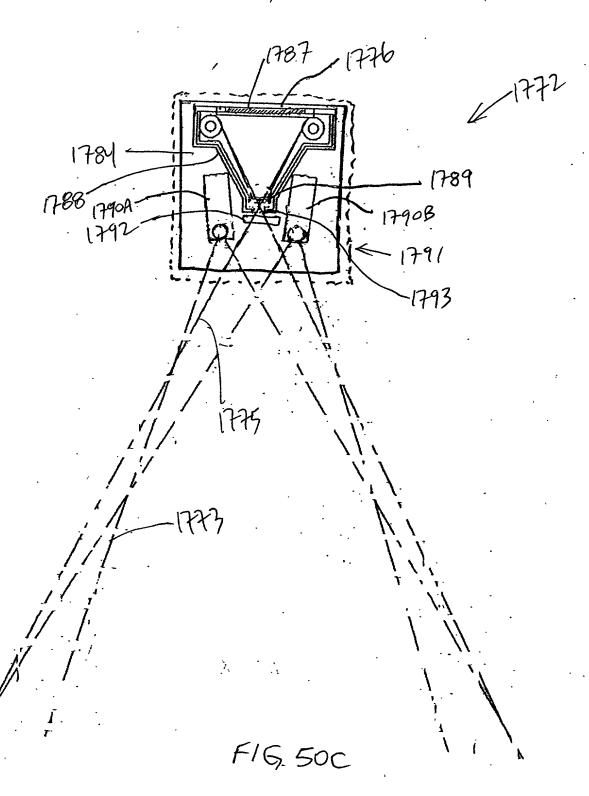
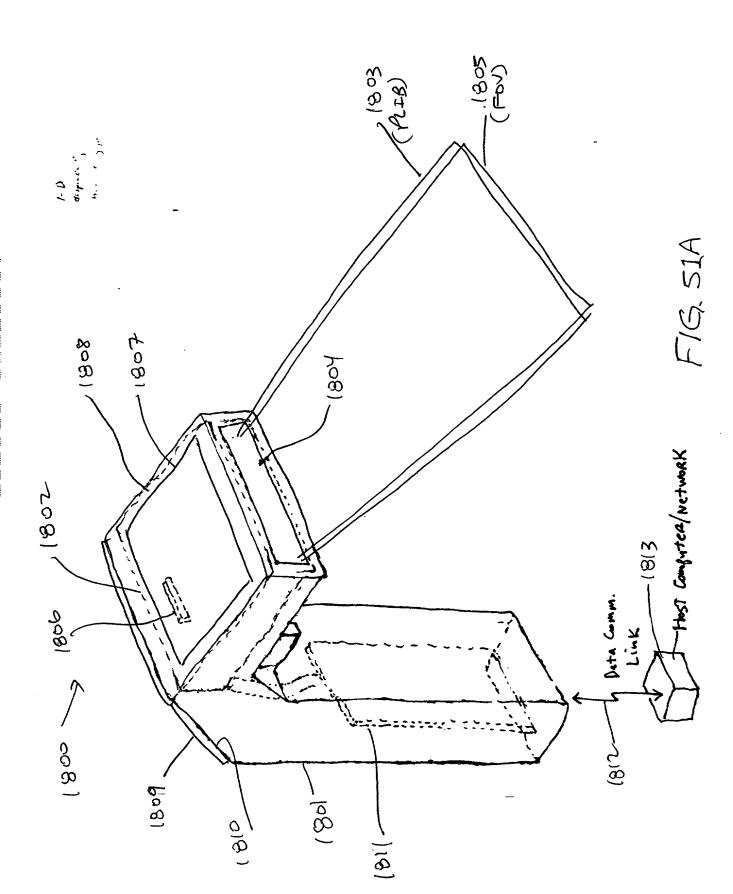


FIG. 50B



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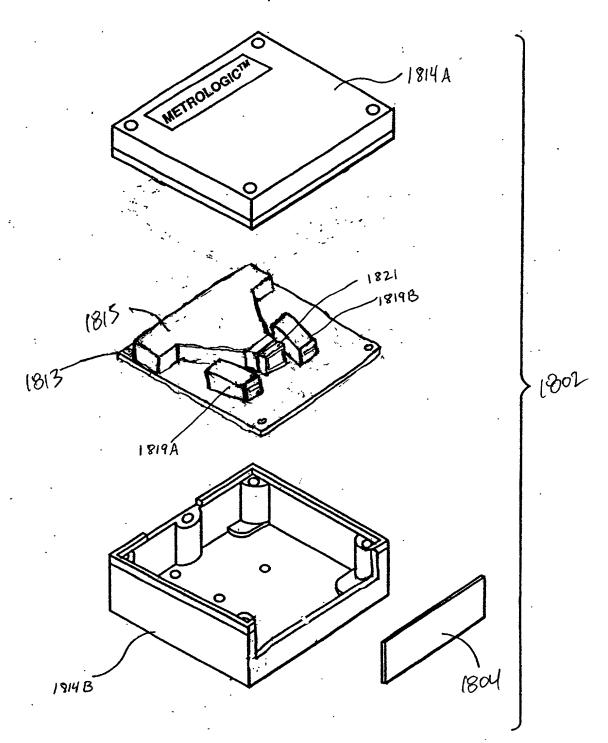
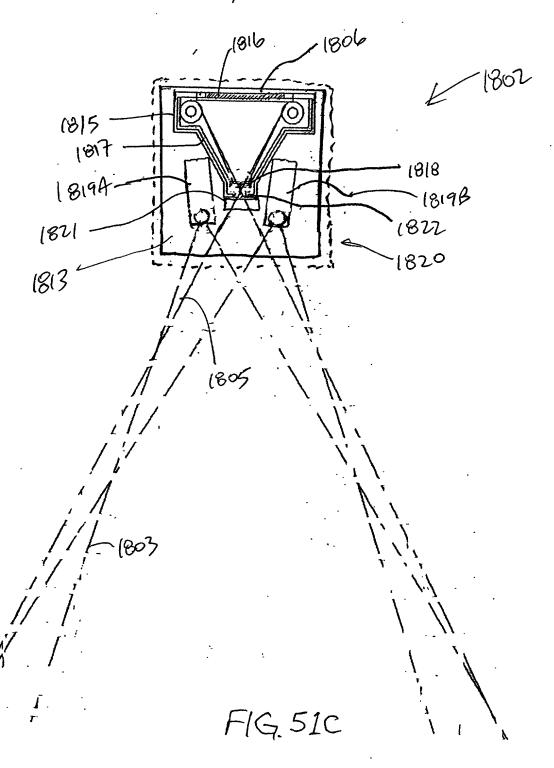
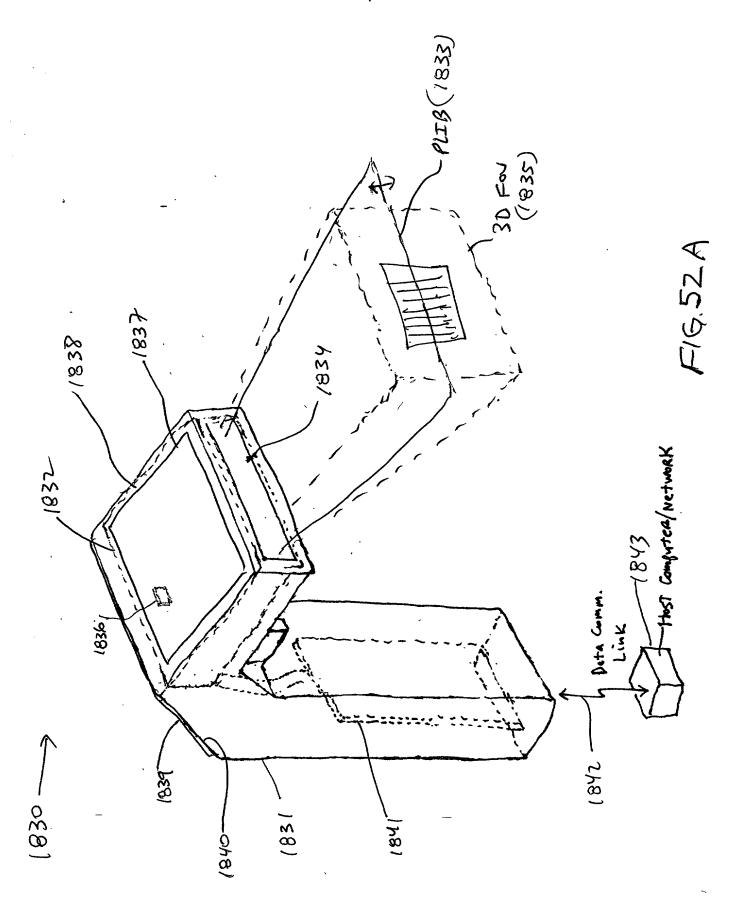


FIG. 51B



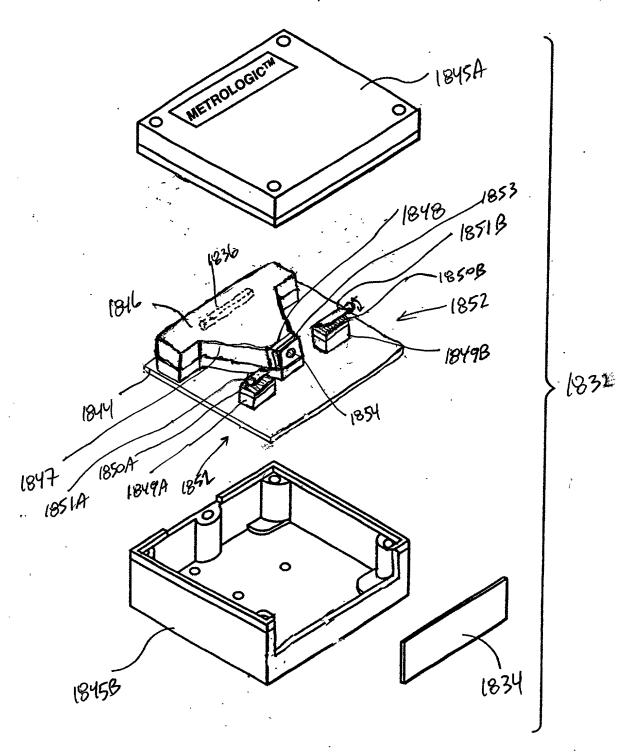
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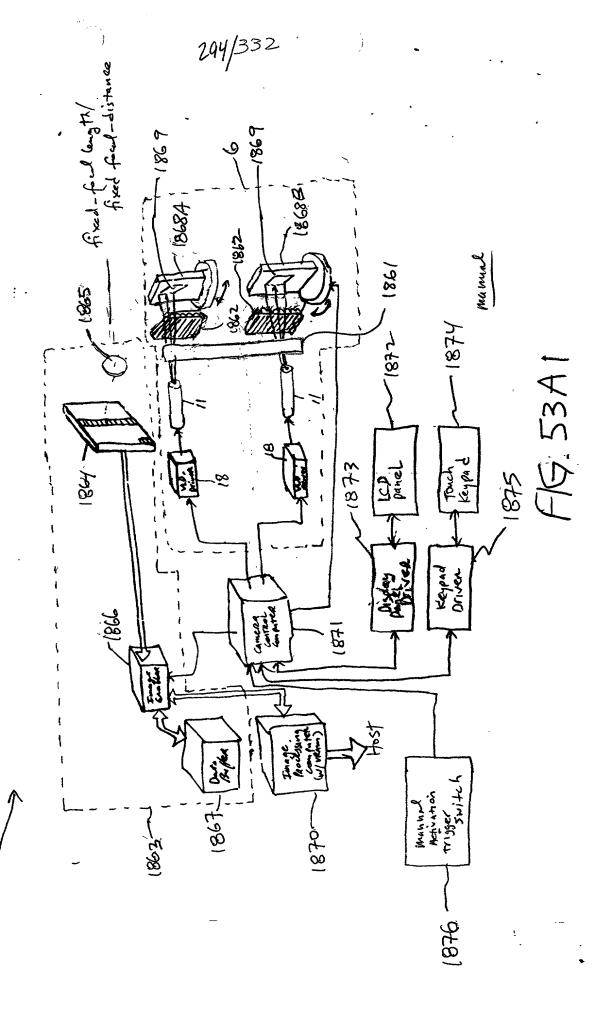
.

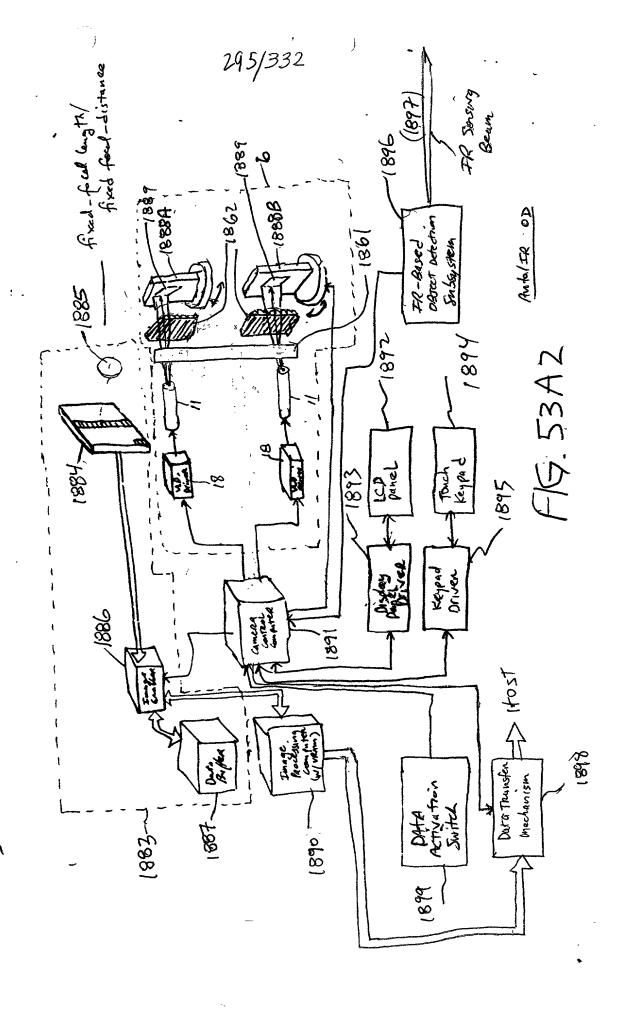
T



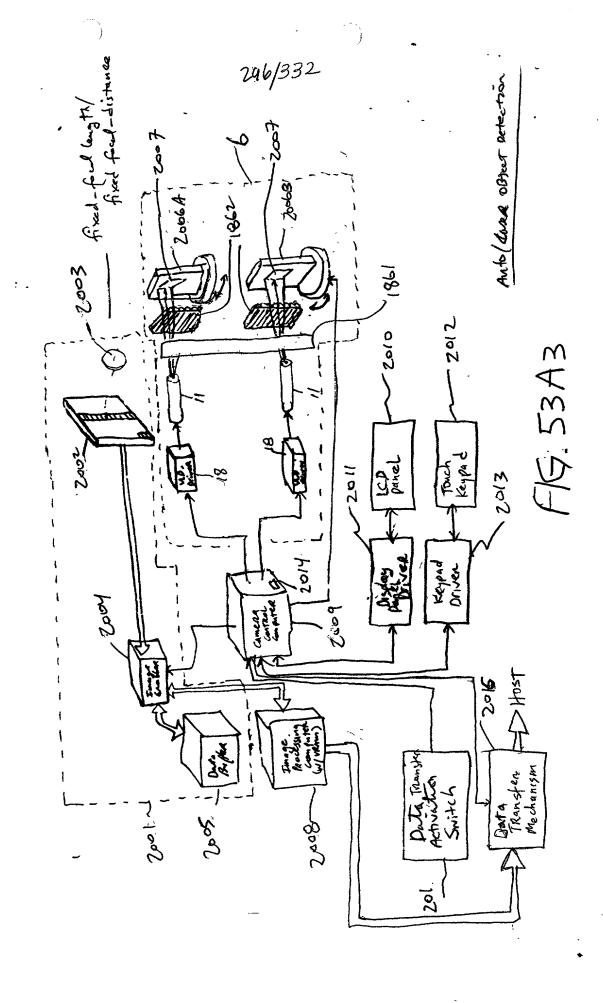
F/G. 52B

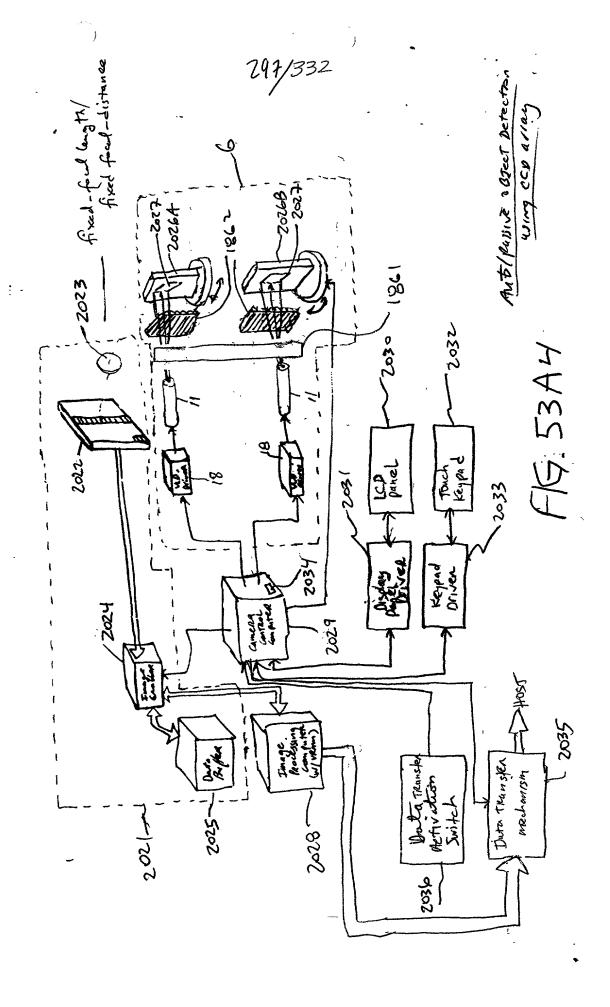
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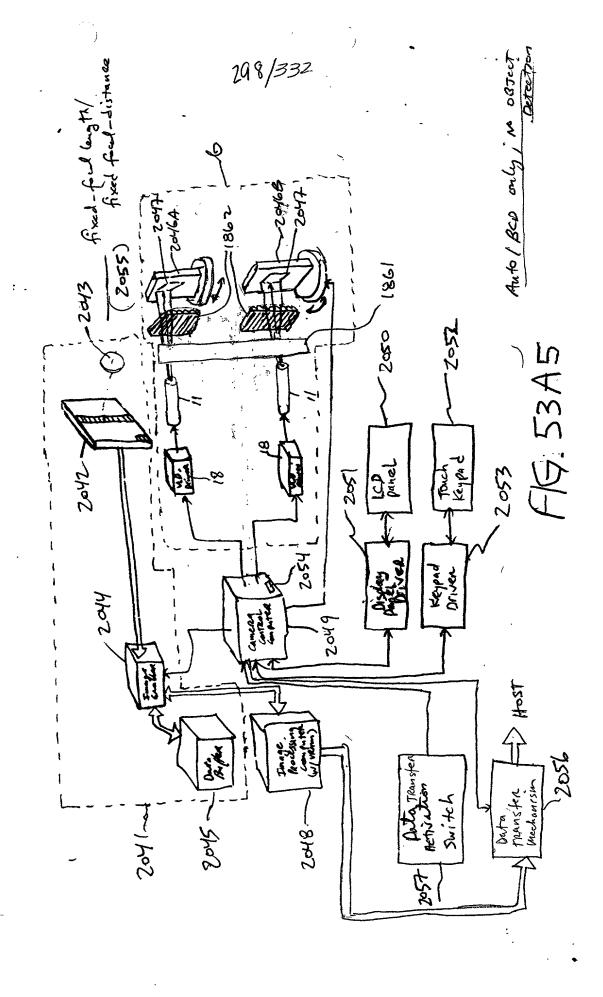




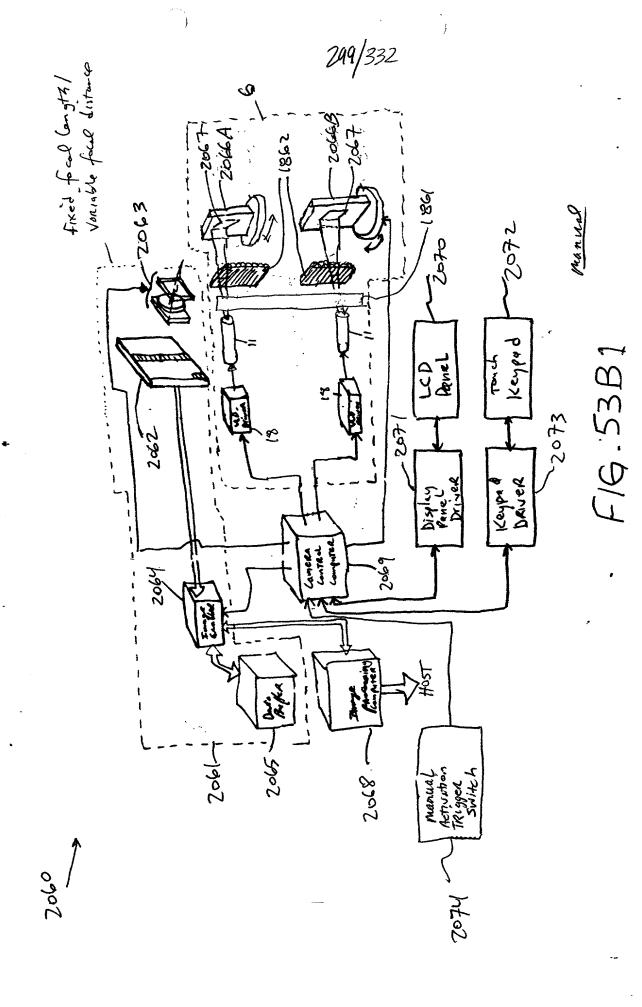
088)

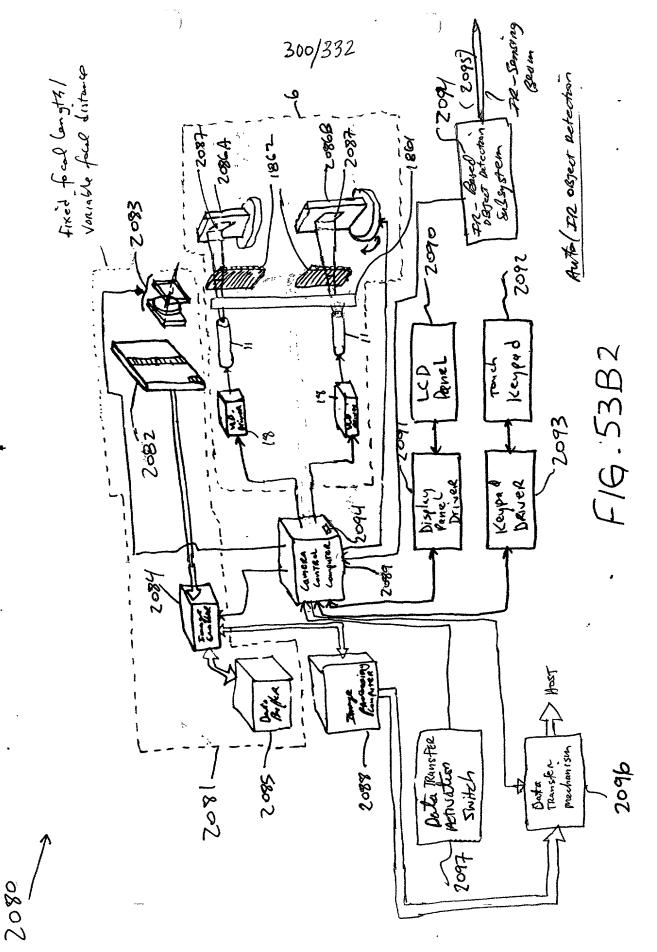


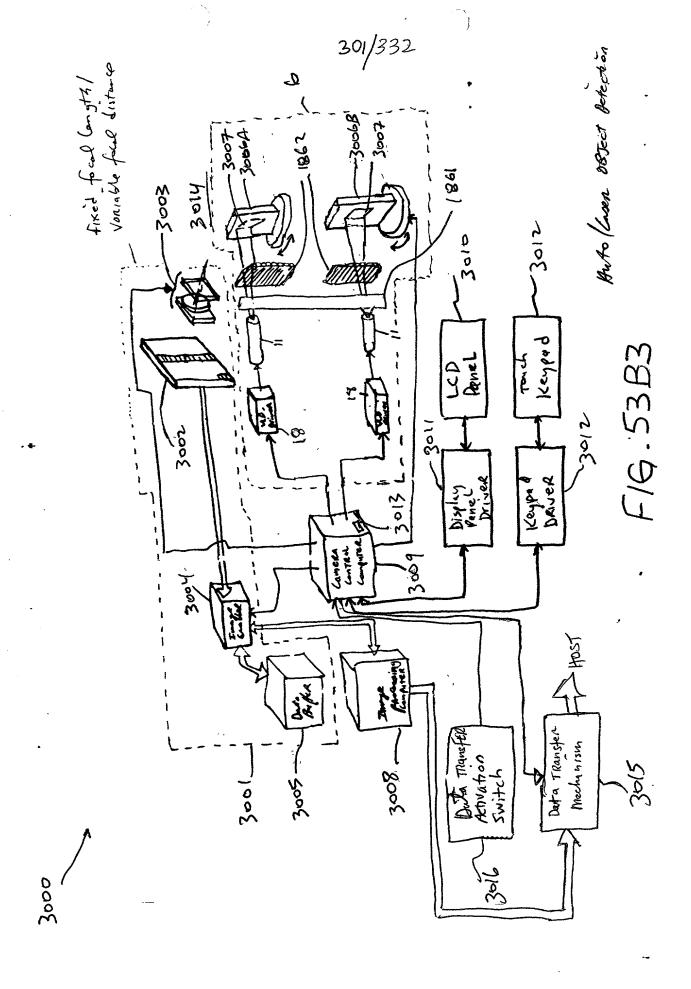


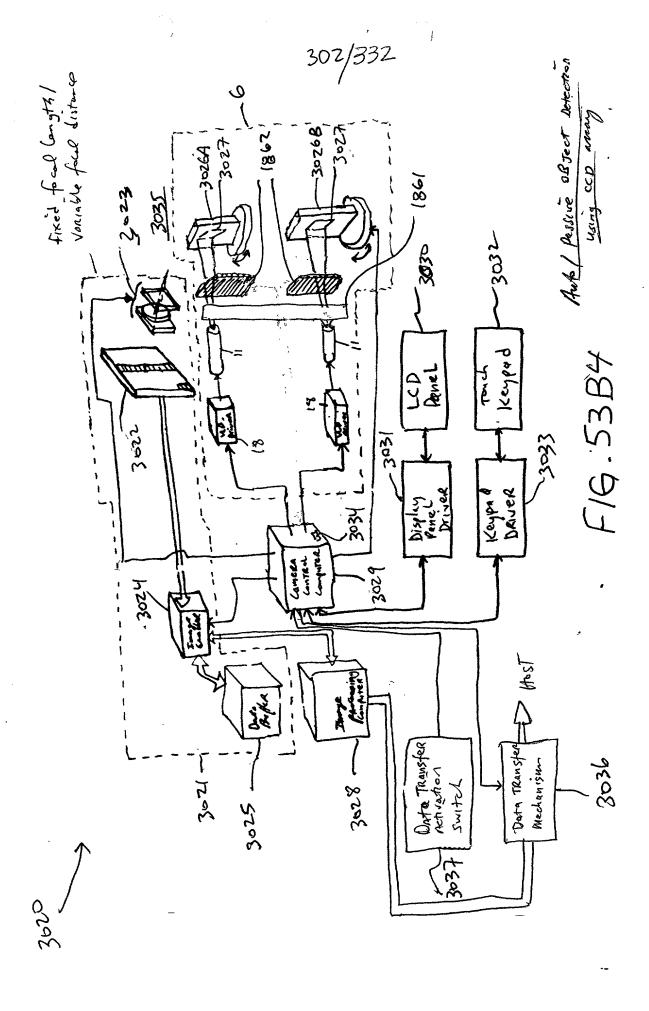


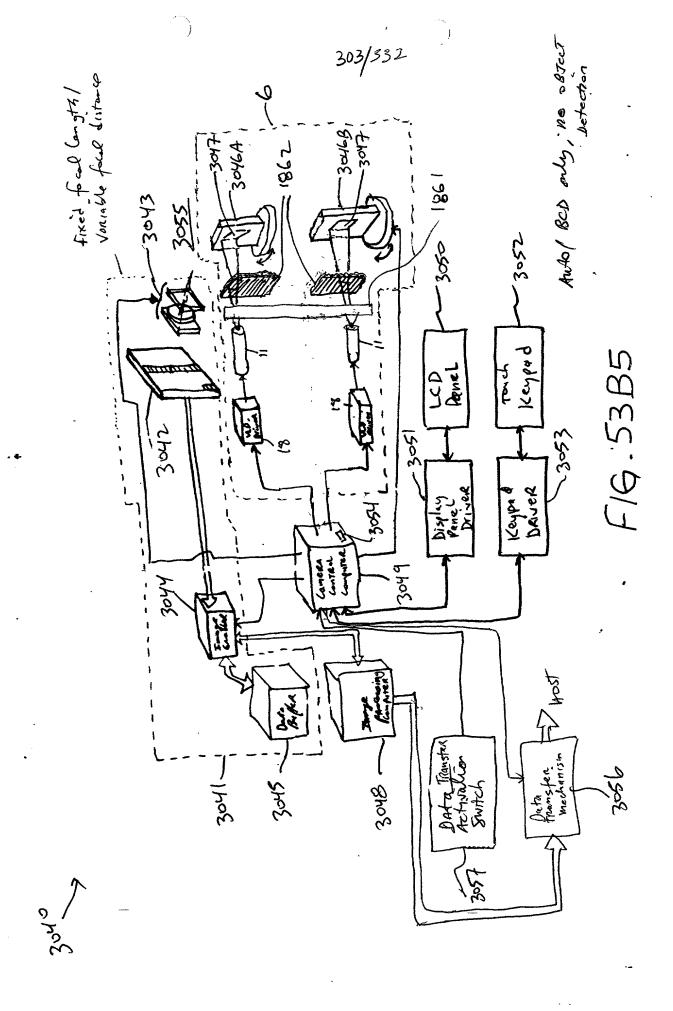
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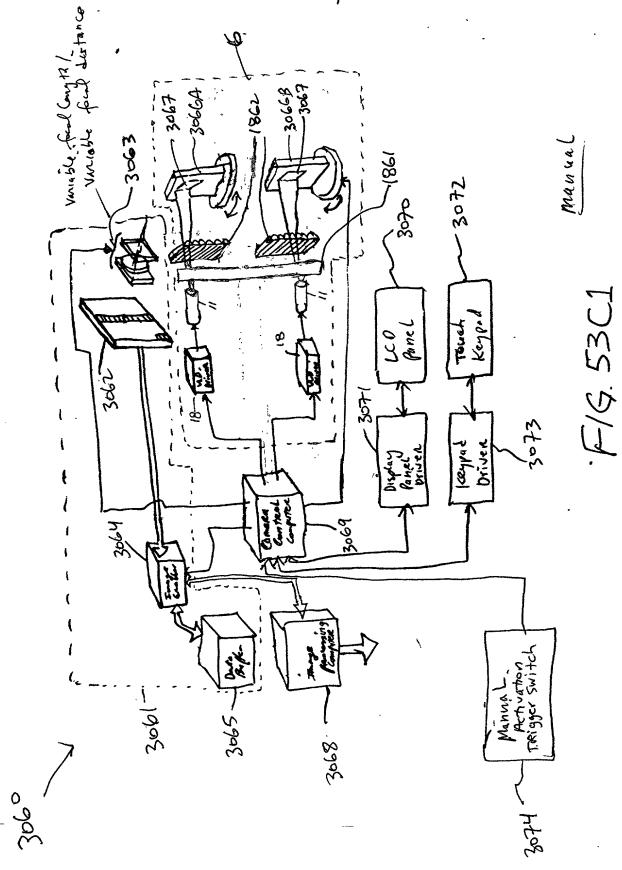




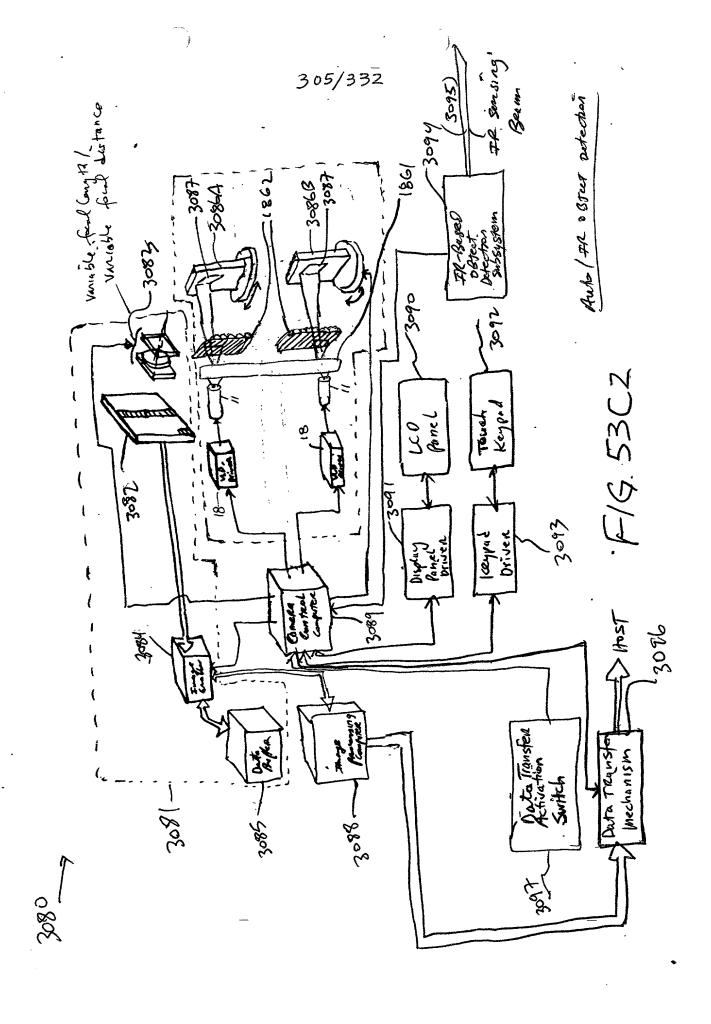


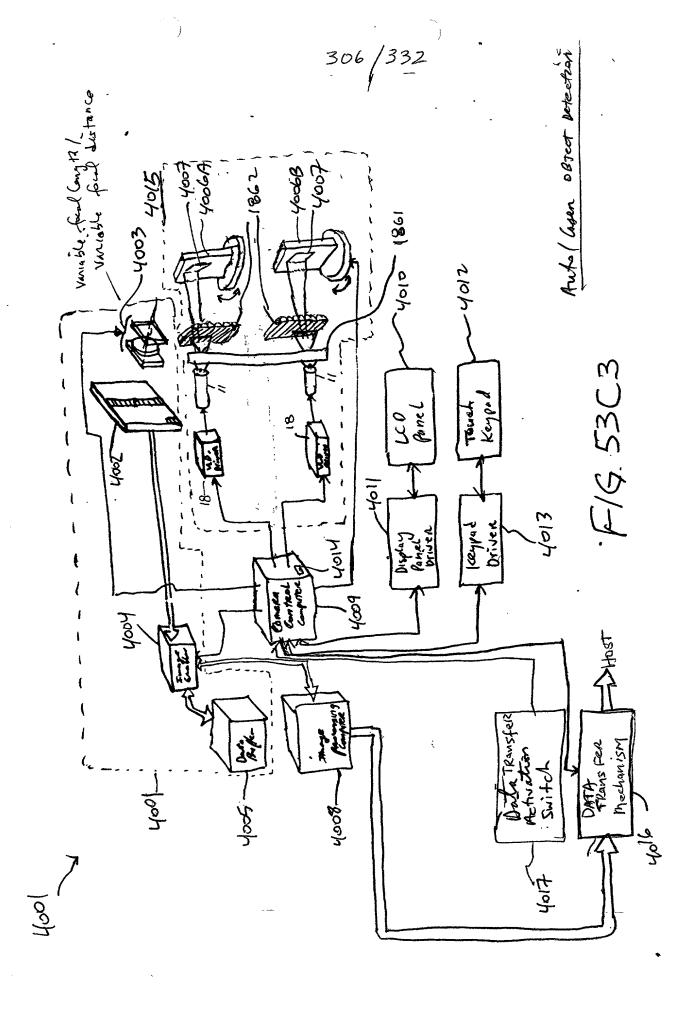


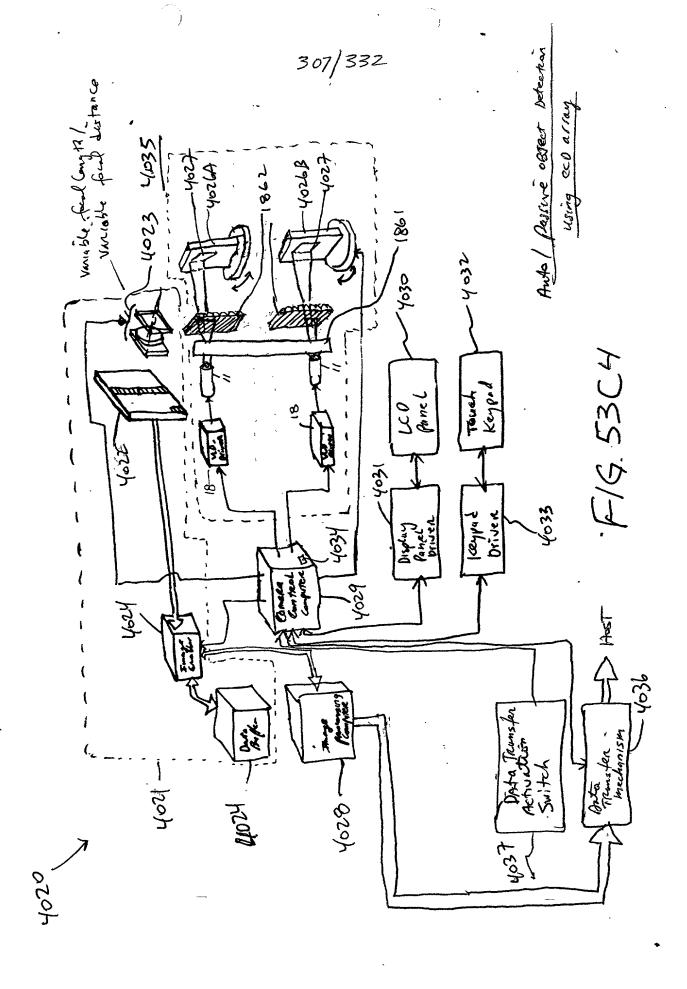


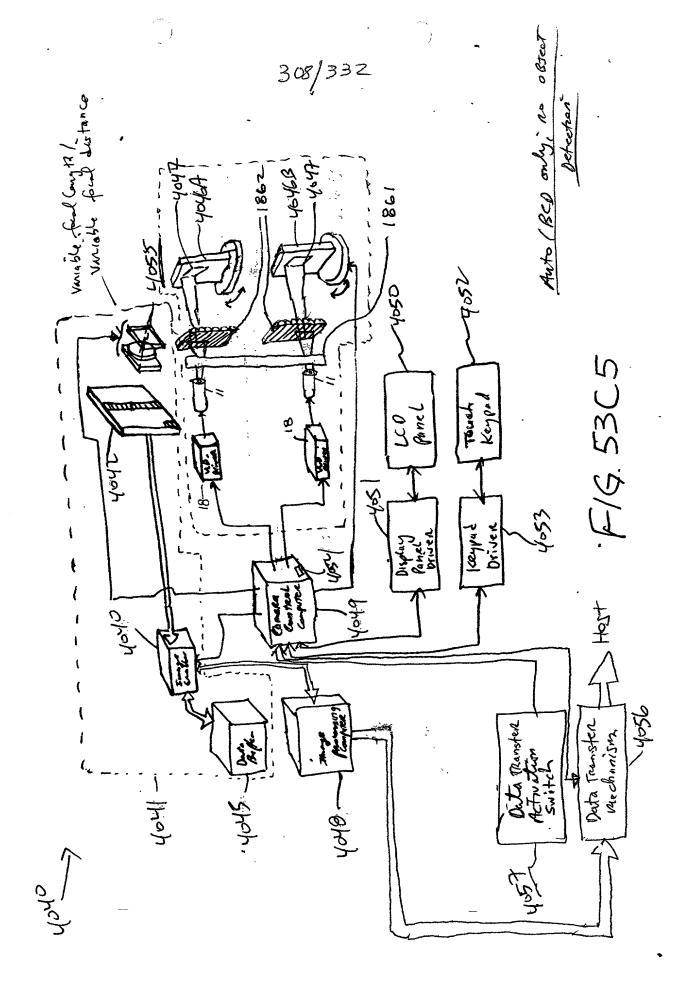


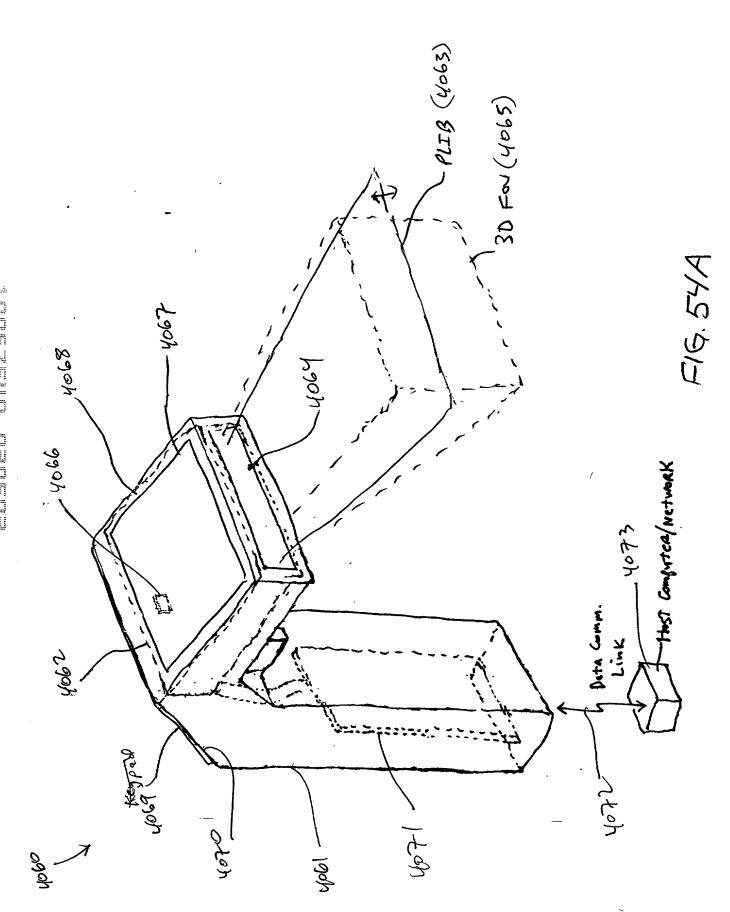
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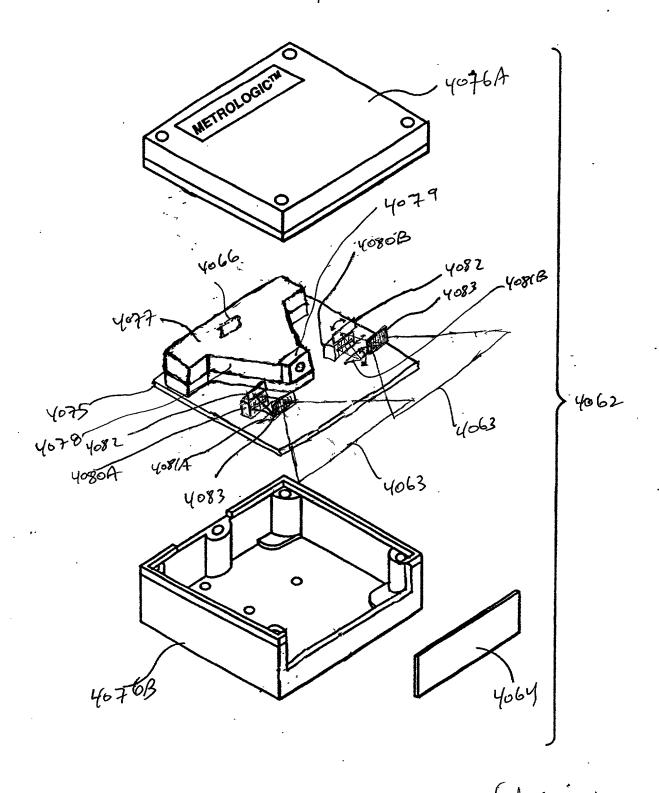




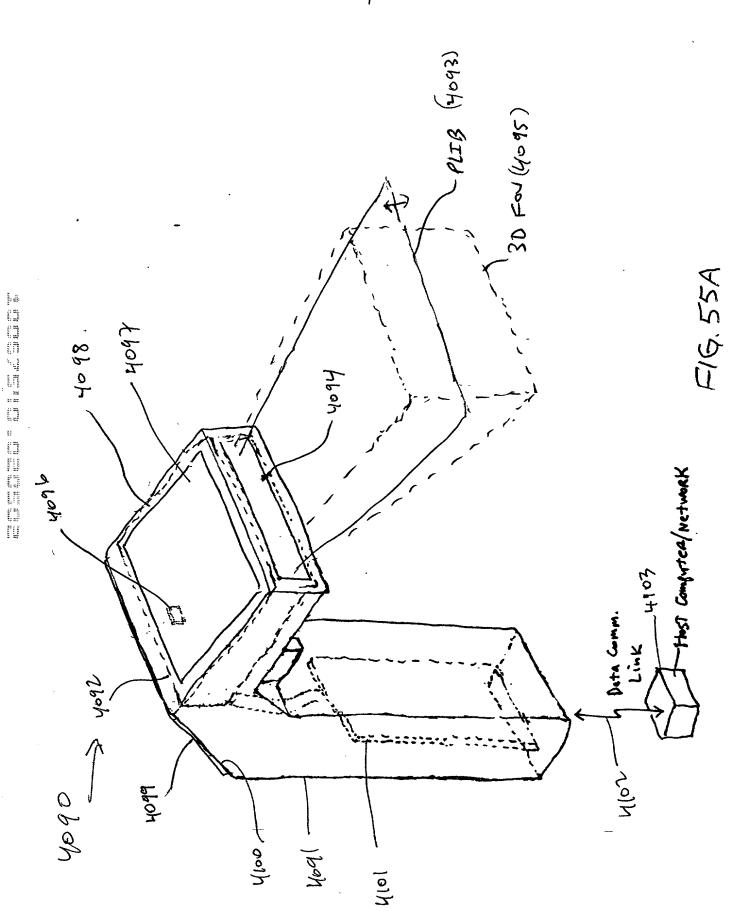




off of the state o



( deral mirrors) F/G. 54B Fig. 175A-SP1



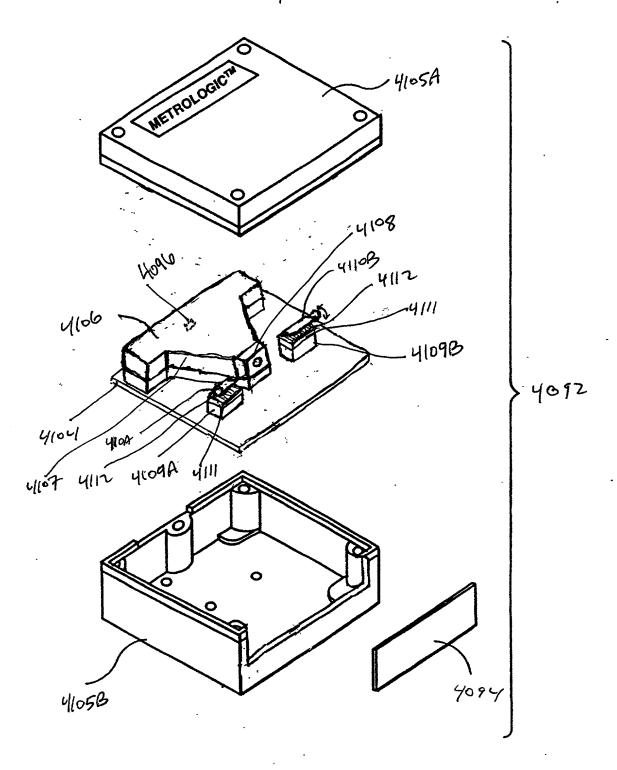
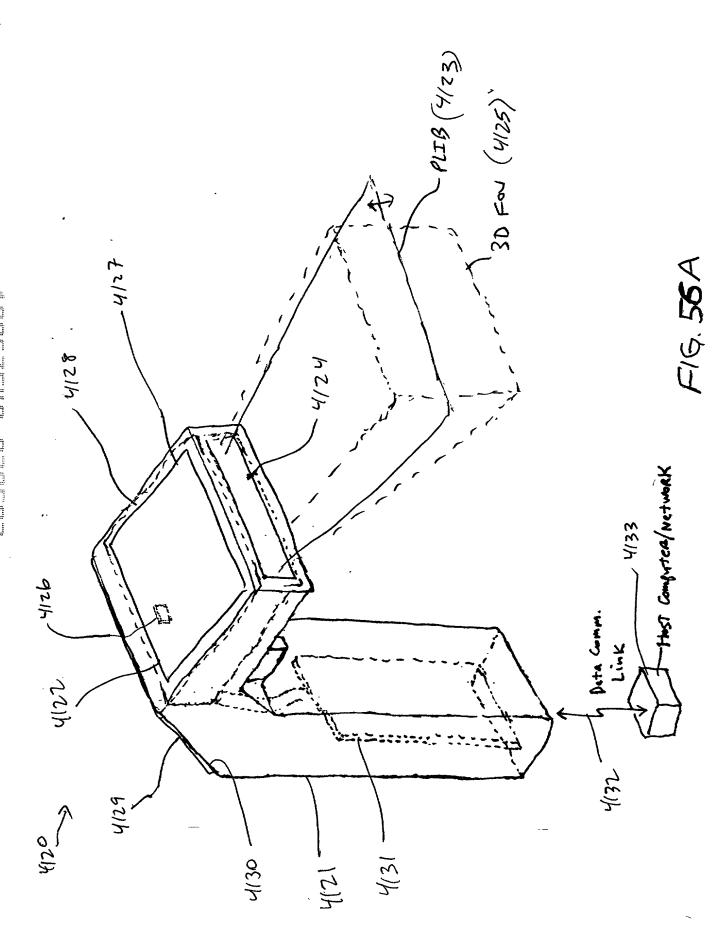


FIG. 55B

Brogg cell -Fy 116A-6B



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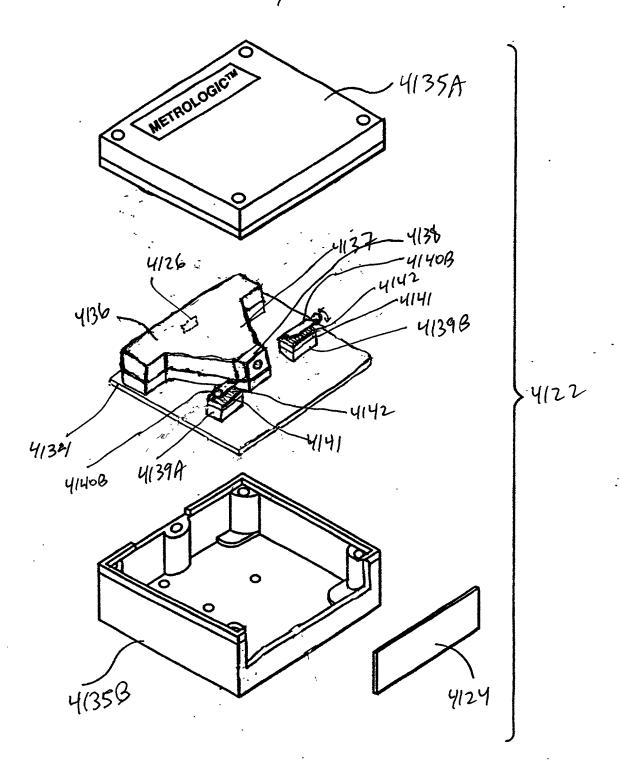
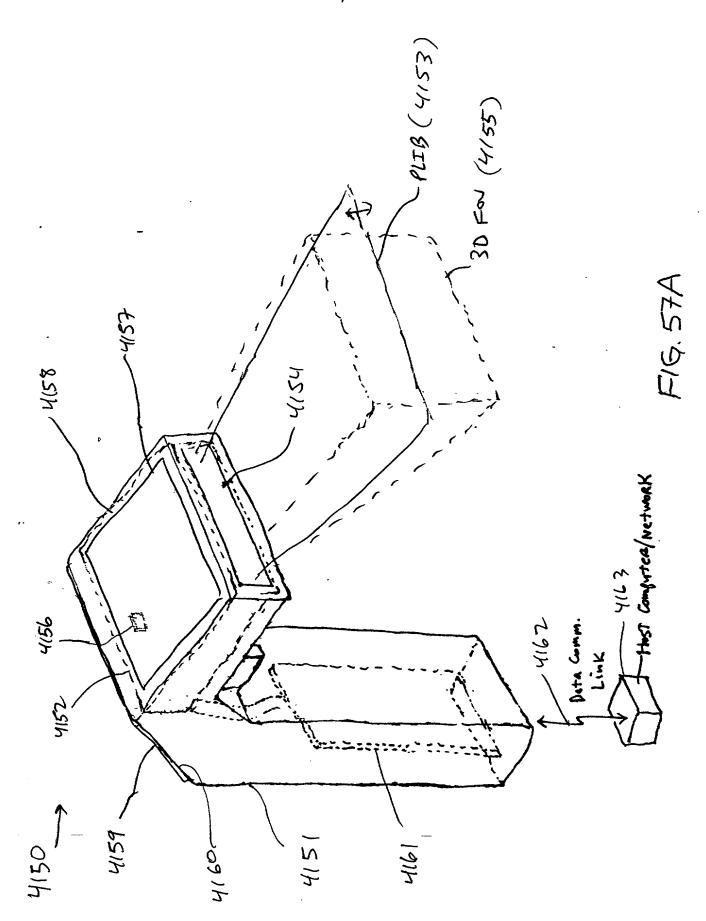


FIG. 56B

DM Fy. 1174-7C



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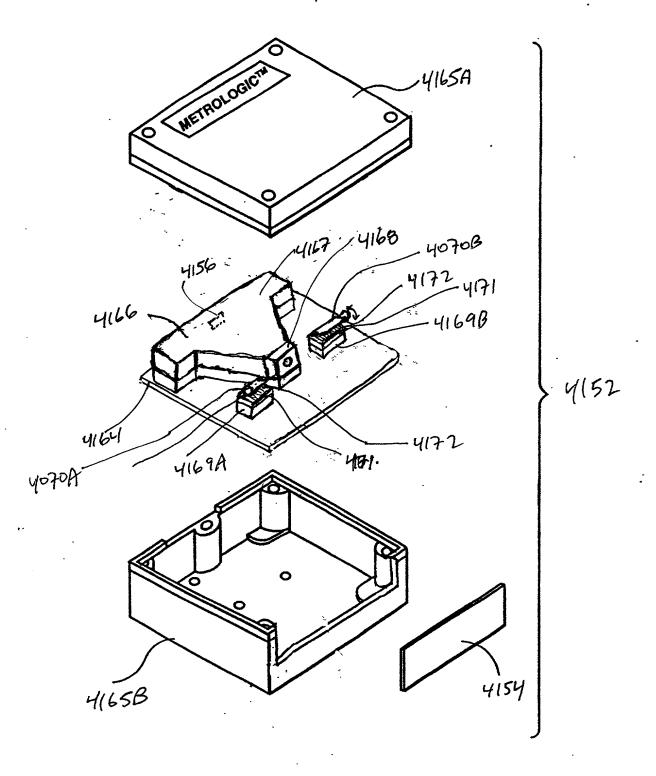
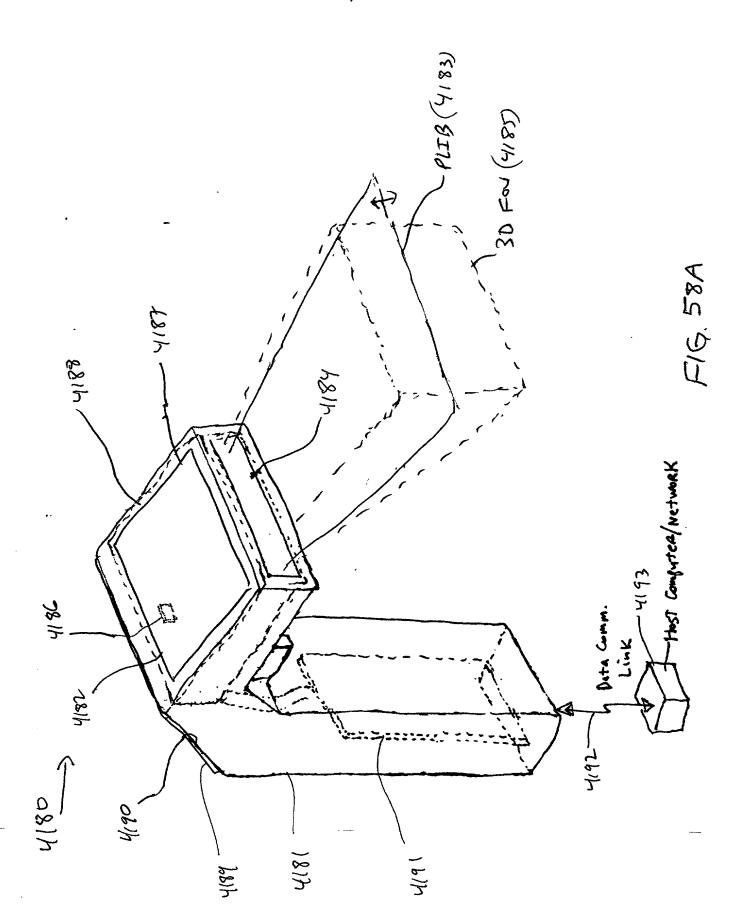


FIG. 57B\_

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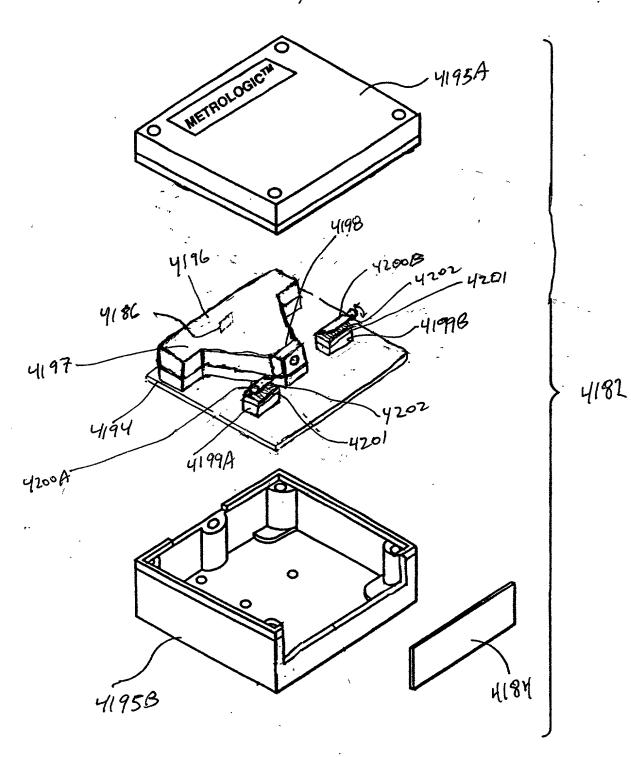
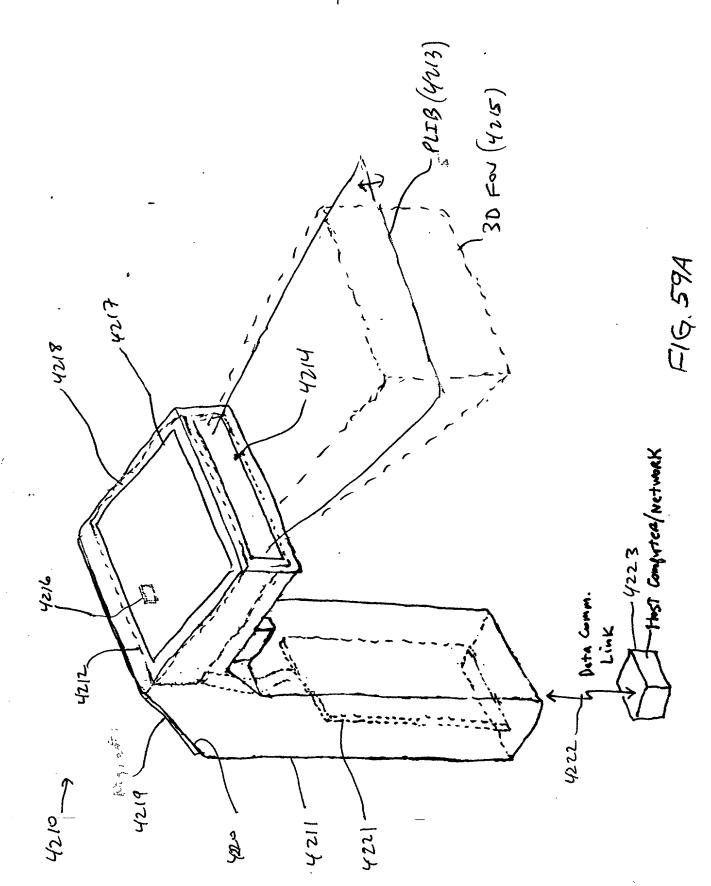


FIG. 58B

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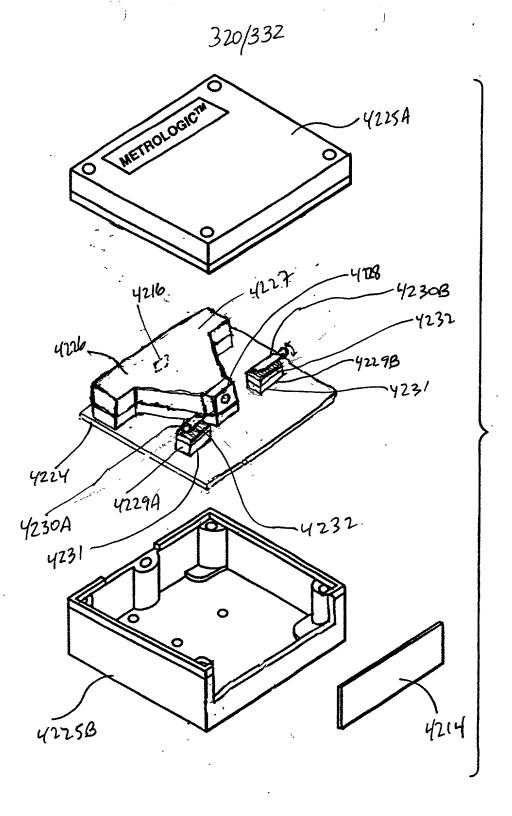
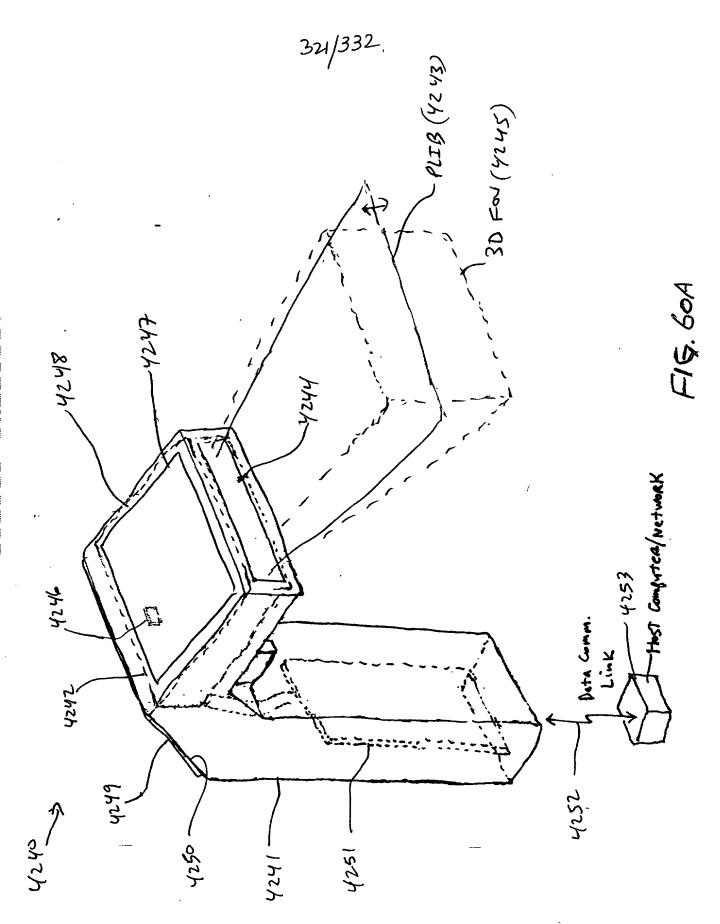


FIG. 59B

MCLD Fy. 1I 13 A-15B



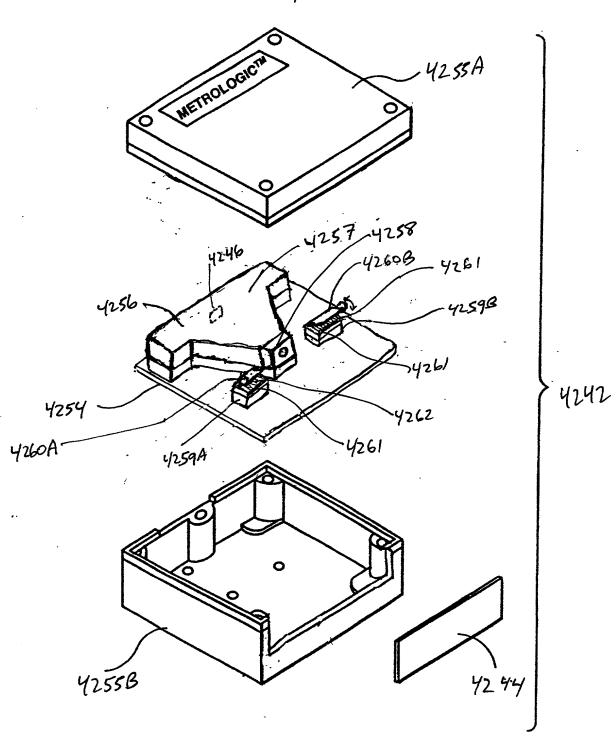
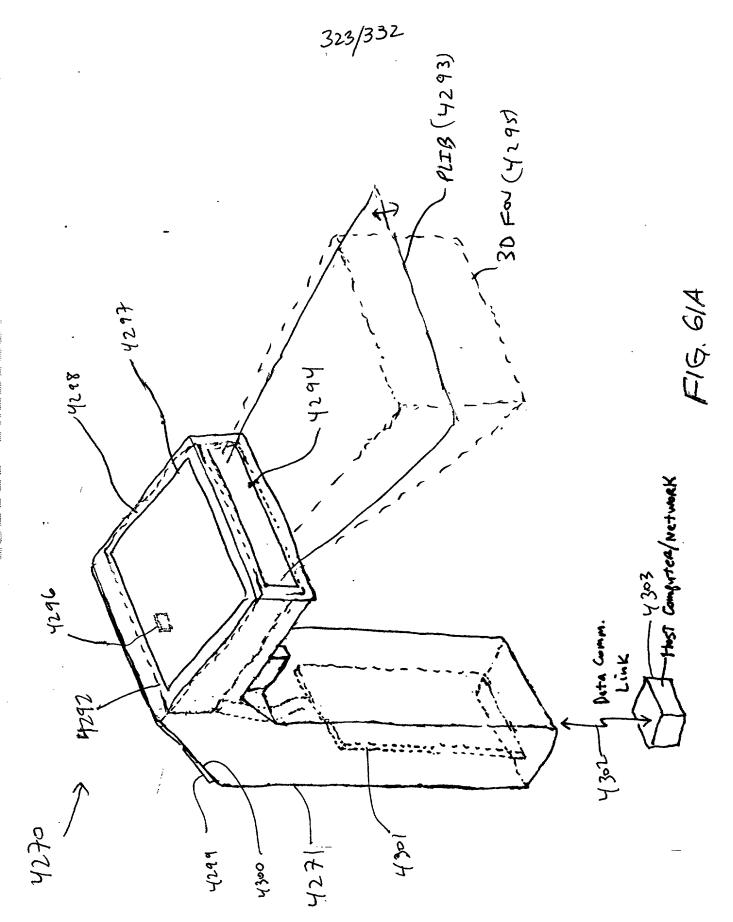


FIG. 60B

Bohalon Rig. 1117A-178



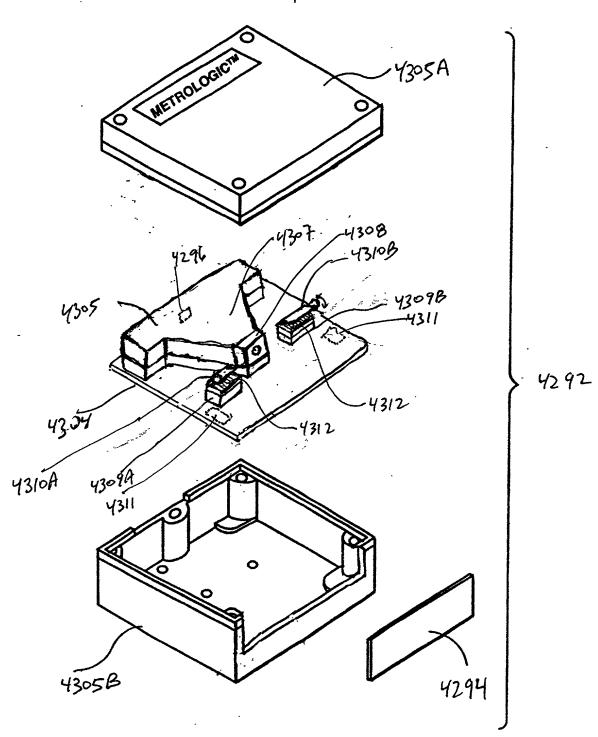


FIG. 61B

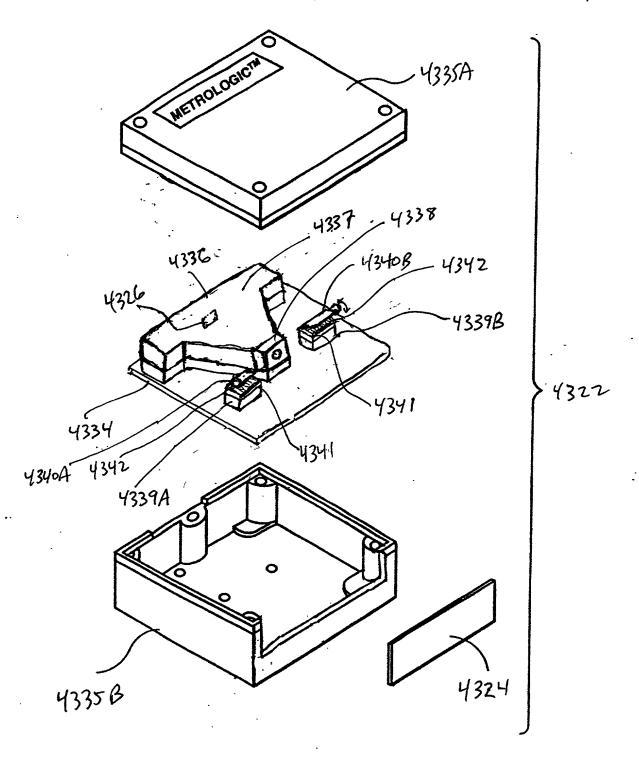
Mud. hopping

Ry. 12194-19B

325/332

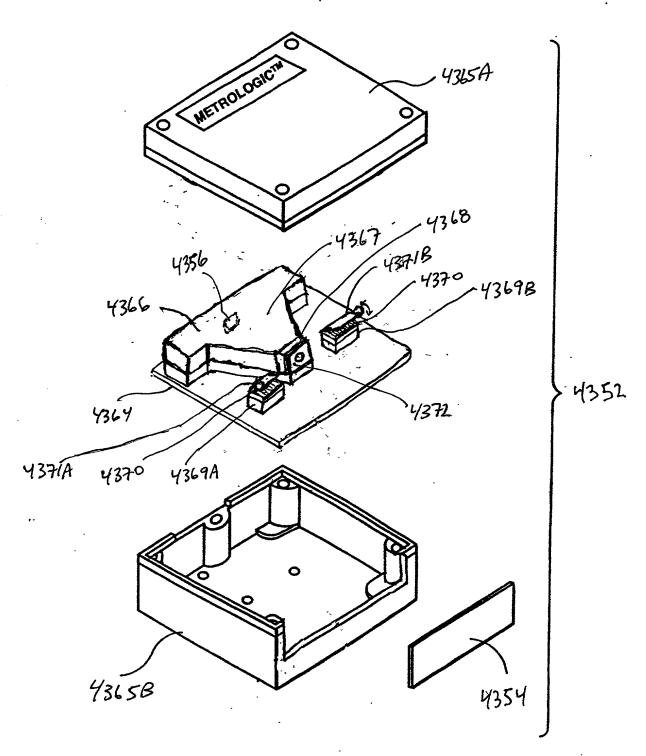
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F1G. 62B

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F/G.63B

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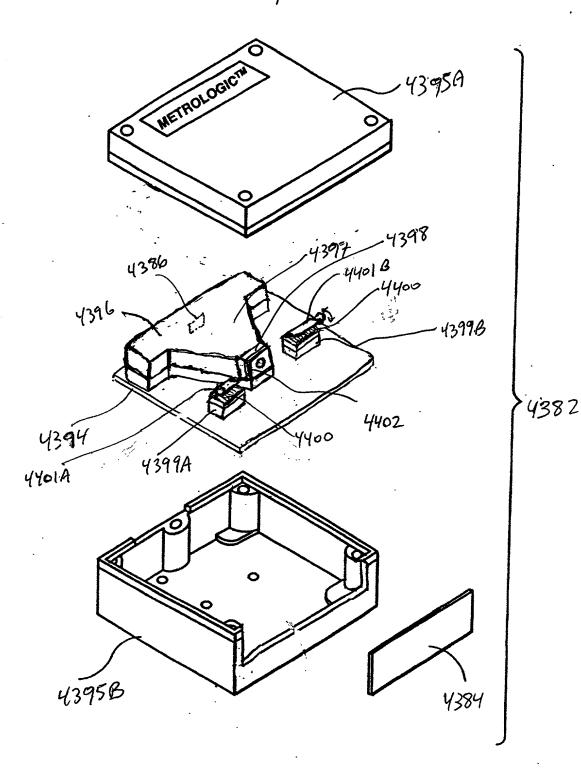
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F1G. 64B

\* E-optical Shutter Before IP Cons Czy. 1IZ4A

